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# Twenty-fourth Annual Report

*of the*

University of Illinois  
Health Service

*1939-40*







UNIVERSITY OF ILLINOIS

HEALTH SERVICE

Departments in Urbana-Champaign

Twenty-fourth Annual Report  
1939-1940

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Urbana, Illinois

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## FOREWORD

Health is the first prerequisite of every educational program. The Health Service of the University of Illinois promotes health education and prevention of disease through physical examinations, personal conferences, classroom instruction, demonstrations of disease control, and a sustained effort to provide safe and sanitary surroundings in which students can live, learn, and play. The facilities of the Health Service are available to all students who desire information concerning any matter pertaining to their personal well-being, the safety of their surroundings, modern medicine, or sanitation.

The advice given may pertain to the need of the service of a specialist, a certain diet to be followed, or the modification of a schedule of work to provide more rest and recreation. As a result of his conferences, the student may be provided with the means for better adjustment or urged to go to the hospital for prompt attention to insure early recovery and the avoidance of complications.

The types of service which the Health Service provides for the students of the University include:

1. A complete medical examination at the time of entering the University.
2. A personal conference with a physician for the interpretation of the results of the entrance examina-



ation and for emphasis upon the necessity of correcting, if possible, any abnormalities which are found.

3. A special medical examination and certification for participation in intramural and collegiate athletics.
4. Recommendations to the Department of Physical Education and to scholastic counselors regarding physical fitness to engage in certain programs.
5. Prevention and control of communicable disease.
6. Supervision of the sanitation of the campus in cooperation with other appropriate University agencies.

As in the past, freshmen continue to make more visits to the Health Service than upper-classmen. Better adjustment to environment, greater knowledge as to how to care for their health, age and immunization decrease illness among upper-classmen.

The sustained efforts of the local health department to control communicable disease in the Twin Cities, to provide a safe, clean milk supply, and to enforce State and local laws pertaining to eating places in the local health district, are most welcome contributions to the protection of the health of the University population.

Doctors C. E. Tate, M. Paul Mains, M. F. Hanson, and Doctor A. V. Green did not renew their contracts with the Uni-



versity. Dr. Mains is specializing in radiology. Dr. Tate has re-entered practice in Jackson, Michigan, and Dr. Hanson has begun the life of a practitioner of medicine in Havana, Illinois. Dr. Green though licensed to practice medicine in Iowa and Ohio, states which reciprocate with Illinois, was unable to get reciprocity because the hospital in which she served her internship did not meet the approval of the State Department of Registration and Education. She, therefore, withdrew from the Staff and is now resident physician in the Woman's Hospital, Philadelphia, Pennsylvania. In the withdrawal of these physicians from the Health Service staff, it suffered the loss of well-trained, able, loyal doctors who were much admired by the students.

The Health Service is continually faced with the problem of maintaining a staff of well-trained physicians. It is almost an annual occurrence for two or more promising members of the staff to decline to renew their contracts in order to specialize or to engage in private practice. There is some tendency for young doctors to regard a position on the Health Service staff as a stepping stone to private practice or as a means to recoup their finances before specializing.

The problem of obtaining and retaining excellent per-



sonnel becomes more and more acute because of the necessity of competing with the Army, the Navy, the United States Public Health Service and state and municipal departments of health which are rapidly developing under the stimulus and assistance provided through the Social Security Act. Certain advantages of private practice and the opportunities offered by governmental agencies are providing very real competition for the services of well trained young men. Obviously, physicians who cannot succeed in practice or who are not desired by other organizations are not the type most likely to succeed on the Health Service Staff.

Under such circumstances, turnover tends to be high and great care must be exercised to prevent the Health Service becoming a haven of security for those who long for a life well removed from competition. Such persons are almost certain to lack the initiative, the aggressiveness, and the industry essential to keeping pace with the rapid advances in preventive medicine and sanitation.

The functions of the Health Service are primarily those of education and prevention. A physician appointed to its staff can expect to engage in therapy only to the limited extent of giving minor dispensary service and medical advice.







If a student is seen who requires prolonged care or who needs hospitalization, he must be referred to a local doctor for treatment.

This procedure often seems to raise a question in the student's mind as to whether or not the physician on the Health Service staff is competent to treat patients. Some of the younger physicians who perceive this reaction sometimes feel rather keenly that the limitations the University has placed upon the treatment of students by members of the Health Service staff promotes distrust and discounts their ability.

While there is some reason for such feeling on the part of the members of the staff, it would hardly be wise for the University to change its policy from placing emphasis upon the Health Service as an educational and preventive agency to that of a department of therapeutics and surgery. The University has provided for students both individually and collectively by the establishment of a Health Service, the construction of a hospital, and has made it possible for them to get cheap insurance for both hospitalization and medical care.

Lack of adequate space in the present building has become a real problem. As the years have gone by, increase in enrollment and the assignment of many new duties to the Health Ser-



vice have caused the demand for office space to exceed the capacity of the rooms as now arranged. Although excellently located, the present house was built for a dwelling and is not especially fitted for the offices of physicians. Rearrangement of its office space would do much to make the present Health Service Station adequate.

The Health Service has enjoyed and acknowledges with gratitude the cordial cooperation given it by local officials and physicians of the Twin Cities in looking after the health of students. It is under great obligation to the deans and directors of the various colleges and schools of the University and its general administrative officers for the valuable aid it has received in the performance of its duties.

*J. Howard Beard M.D.  
University Health Officer*







## VISITS

The nation experienced the lowest sick and death rates in its history. This was reflected in the student body. The total registration of the University for the academic year 1939-40 in the Urbana Departments as reported by the Registrar was 13,181. The records of the Health Service for the academic year show that 55,021 visits were made by students for examinations, conferences and advice, an average of more than four visits for each student. In addition, there were 1650 visits by University employees and 51 miscellaneous calls, making a grand total of 56,722 visits. Of the total visits, 4691 were made because of the physical examination required of all new students upon entrance to the University. Of these, 3934 students or 83.9 per cent were re-examined.

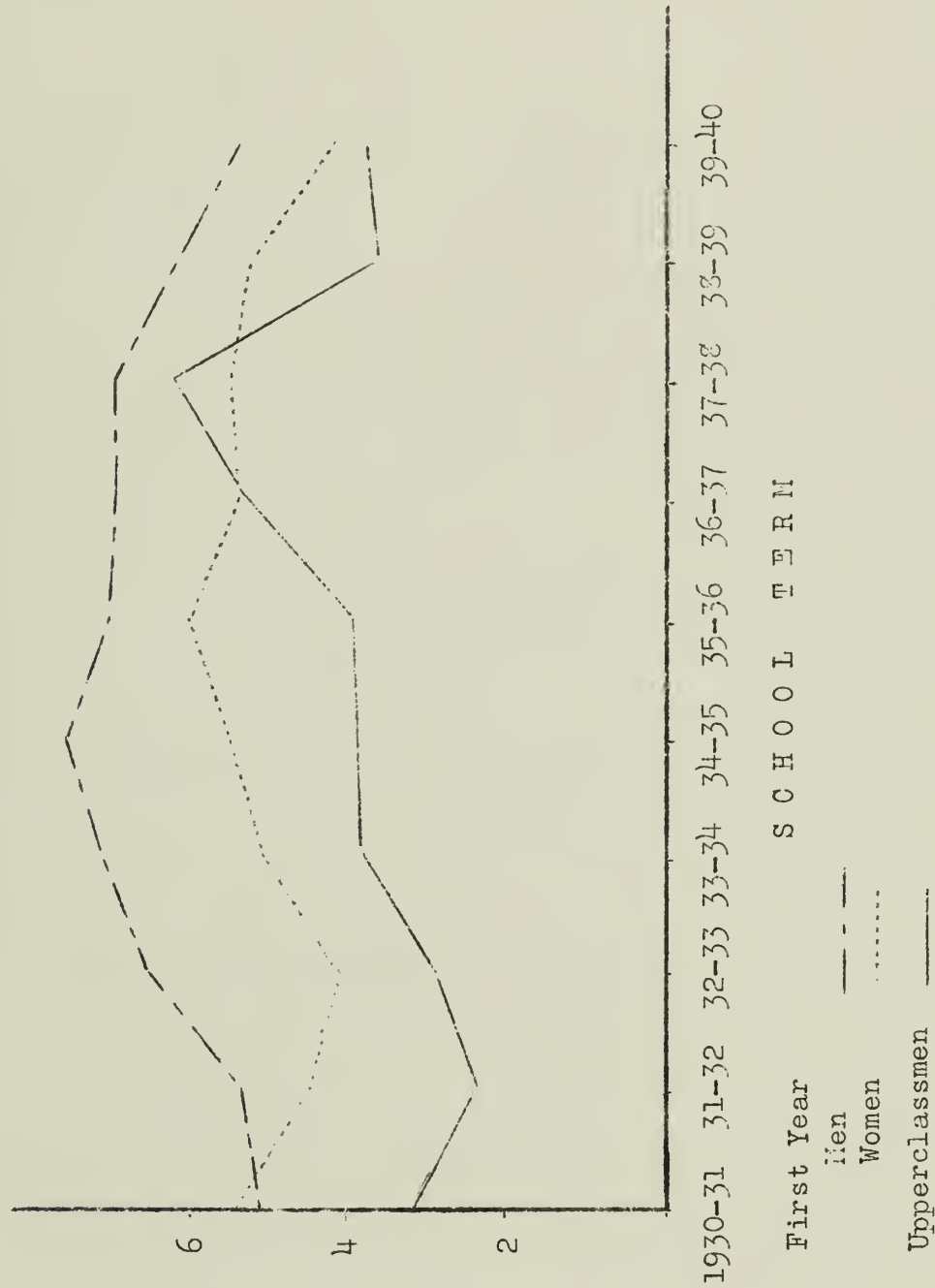
The men of the class of 1943 called 16,549 times, an average of 5.4 calls per man; the women called 5,162 times, or 4.2 calls per woman. The average for upper-classmen was 3.2 for the men and 4.3 for the women. First year students usually make more visits per capita than members of the other classes.

A ten year average call rate of men and women is shown in Graph I.





# AVERAGE ANNUAL VISITS A Comparison of First Year Students and Upperclassmen





## MEDICAL EXAMINATIONS

Students: Complete physical examinations were given to 4,691 students during the academic year of 1939-40. Of this total, 3,339 were men and 1,352 were women. Examinations were given 408 prospective students who did not matriculate. There seems to be no way to avoid these needless examinations, since a student may present himself for examination at any time after graduation from high school and opening of the University. This number tends to fluctuate yearly but remains approximately 8 per cent of the total number taking physical examinations.

High School Pupils: There were 88 physical examinations given to high school students. Of these, 52 were boys and 36 were girls. A growing consciousness and knowledge of the benefits to be derived from immunization against smallpox has left only 3.41 per cent of those examined, unvaccinated. None of these pupils had serious abnormalities; fifty-seven had had their tonsils removed.

Civil Service Employees: Employees of the University made 1,650 calls to the Health Service Station, of which 196 were for physical examinations. Of the total examined, 187 were men and nine were women. Of these, 175 were graded as good, 20 as fair, and one poor.



# NUMBER OF STUDENTS PER 1000 EXAMINED

## WHO FAILED TO REGISTER

	Number Taking Physical Exams	Number Not Registering
1928-29	4457	273
1929-30	4696	323
1930-31	4772	333
1931-32	3936	296
1932-33	3131	260
1933-34	3728	361
1934-35	4321	241
1935-36	4662	474
1936-37	5346	478
1937-38	5456	553
1938-39	5108	480
1939-40	4691	408



Chart No. 2



Civil Aeronautics Authority: In cooperation with the College of Engineering, forty-seven students who made application to take the primary course in the aviation training program had their medical records reviewed to acquaint them with their possibilities of passing the physical examination given by the flight surgeon. Obviously, this procedure saved many applicants the cost of the physical examination because certain defects which would disqualify them from further consideration, were emphasized to the applicants.

Chauffeur Examinations:

(a) Faculty members and employees who were to drive University automobiles were required to take an examination to determine their acuity of vision, color vision, hearing, reflex action, glare recovery, coordination, depth perception, reaction time, field of vision, and general health. The construction of the "Reactichron" by Dr. M. Paul Mains of the staff has made possible a most up-to-date method of testing prospective drivers.

A total of 468 persons took the examination, of which 383 were men and 75 were women. Of these, 398 were considered to be normal and recommendations concerning the other 26 were as shown in Table 1.

(b) Students. As in the past, the Health Service has continued to give chauffeur examinations to all undergraduate





students requesting permission to drive motor vehicles. This is in accord with the University's policy to restrict the use of automobiles on the campus, and to minimize the hazards associated with the operation of automobiles by the physically unfit.

There were 279 students requesting chauffeur examinations. Of these prospective drivers, 235 were normal and 44 were defective to the degree indicated in Table 1.

Table 1

Chauffeur Examinations

<u>Recommendations</u>	(a) <u>Faculty and</u> <u>Employees</u>	(b) <u>Students</u>
Should not drive without glasses (vision without glasses far below normal). . . . .	23	31
Should have eyes examined and obtain glasses (poor vision without glasses). . . . .	2	8
Should have eyes re-examined and not drive without glasses (pres- ent glasses give insufficient correction) . . . . .	0	1
Restricted, reasons noted:		
Choroiditis . . . . .	0	1
Loss of vision in one eye . . . .	1	0
Defective lower extremities . . .	0	2
Amputated arm . . . . .	0	1



Athletic Examinations: Students who wish to participate in athletics, both intercollegiate and intramural, are required to take an examination to be sure they are physically qualified. Since intramural sports offer mild as well as semi-strenuous games, greater participation in this branch of athletics is possible. Four students were prevented from taking part in the strenuous type but were allowed to participate in "mild sports." It was necessary to reject five students who desired to participate in major athletics because their physical condition was such as to make it quite dangerous to do so. Table 2 below, gives the causes for which rejections were made.

Table 2

## Men Rejected for Varsity Athletics

<u>Reason</u>	<u>Rejected for</u>	<u>Total</u>
Hernia. . . . .	Basketball 1	3
	Gymnastics 1	
	Wrestling 1 . . . .	
Loss of vision one eye. . .	Basketball 1 . . . .	1
Recent appendectomy . . . .	Basketball 1 . . . .	1
Total.....		5

Sustained effort is made not only to give these examinations as quickly and with as little inconvenience as possible to the student, but also to demonstrate to him and to his coach



the importance of such physical inventories before engaging in strenuous physical activity. Physical examinations make it possible to put major emphasis on the far-sighted view of sports as the builder of effective citizens, rather than on the short-sighted attitude of mere winning. Our coaches are most cooperative and helpful in making this constructive conception of sports effective.

Foodhandlers: As a safeguard against possible disease carriers becoming sources of epidemics, all employees who were to handle food products, and students employed as foodhandlers by the University or enrolled in courses in lunch room management, dairy manufacturing, or meat, were examined and vaccinated against smallpox and immunized against typhoid fever in accordance with University regulations. The same service has been made available to those handling food products catering to student patronage.

Groups serving lunches on the campus to University guests, comply with the same foodhandler requirements to give visitors eating on the campus the benefits of the same safeguards as the patrons of the University food-distributing agencies. There were four groups who took advantage of the facilities of the Health Service and received foodhandler's examinations. A total



of 232 students registering with the Employment Bureau for foodhandling jobs have been examined and certified as foodhandlers during the year. The number and distribution of foodhandlers examined who were in the employ of and taking courses in the University are shown in Table 3.

Table 3

Distribution of Foodhandlers

Dairy Department . . . . .	178
Cafeteria, Woman's Building . . .	94
Mary E. Busey Hall . . . . .	71
Davenport House . . . . .	10
Agricultural Salesroom . . . . .	7
Agricultural Engineering . . . . .	
(Farm and Home Week) . . . . .	16
	<u>376</u>

Examinations for Marriage: Pre-marital examinations have been available to students since the enactment of the law requiring them. During the year, 51 students received the benefit of this service.

"FOLLOW-UP"

New Students: At the time that new students take their physical examination, a brief summary of the abnormal findings is immediately made on their cards. Subsequently they are recalled for conferences concerning the defects noted, and are given advice regarding such correction as may be possible. There





were 1802 men and 797 women seen for this purpose.

Each student fills out a questionnaire which is used to get an insight into his health, mental state, habits and living conditions. It offers an opportunity for the determination of his emotional development, attitude, and adjustment to college life. His questionnaire, medical record, and physical examination provide a rather complete inventory of his general condition and well-being.

Albuminuria: During the routine urinalysis on matriculation 228 new students examined in 1939-40 were found to have albuminuria. Repeated re-examinations showed the condition to be persistent in only sixteen. These were referred to their family physicians or to urologists for further study and treatment. One Civil Service employee had transient albuminuria, and of 88 University High School students examined, three showed the same condition.

Glycosuria: Alimentary glycosuria was discovered in 45 of the 4691 students given an urinalysis. None were found to be definitely diabetic.

Heart Disease: Cardiac abnormalities were found in thirty-one students. They have been kept under observation, have been repeatedly examined, and a program outlined to protect



them from undue strain.

Maladjustments: Students who have been found to have difficulty in adjusting themselves to the demands of college life have been seen a number of times. Their medical records, supplemented by personal questionnaires, have been the basis for study of their physical and mental health, and for helping them to adapt themselves to their surroundings and to achieve satisfaction in their work.

Tuberculosis: During the year, tuberculin testing of students was begun on a limited scale. Those who requested it, and those who gave a definite history of contact with tuberculosis were given a tuberculin test. Eighty-eight students were tested, of which seventeen were positive, sixty-eight negative and three doubtful. Those who reacted positive, were urged to have an x-ray of their chests to determine whether or not the disease was present in active form.

A detailed history, thorough chest examination and follow-up of suspicious cases, are not enough to prevent cases of active tuberculosis from going undetected. There are such cases among students. Only by the wide use of the tuberculin test and x-ray of positive reactors can those with active tuberculosis be discovered in the student body and the greatest protection provi-



ded for the University population. By this procedure the victims of the disease can be given the best opportunity to arrest it in its incipency and be completely restored to health.

### COMMUNICABLE DISEASE

Prevalence: There was a slight increase in the number of cases of communicable diseases reported in the student body during the year. Fortunately, the increase occurred in the less virulent type of diseases. A comparison of the cases occurring for the two years is shown below.

Faculty and Civil Service Employees: Communicable diseases in the families of faculty members and Civil Service employees were less during last year than in previous years. Only thirty-eight cases were reported, of which thirteen were chickenpox, sixteen scarlet fever, one streptococcus sore throat, two diphtheria, and six mumps.

Table 4

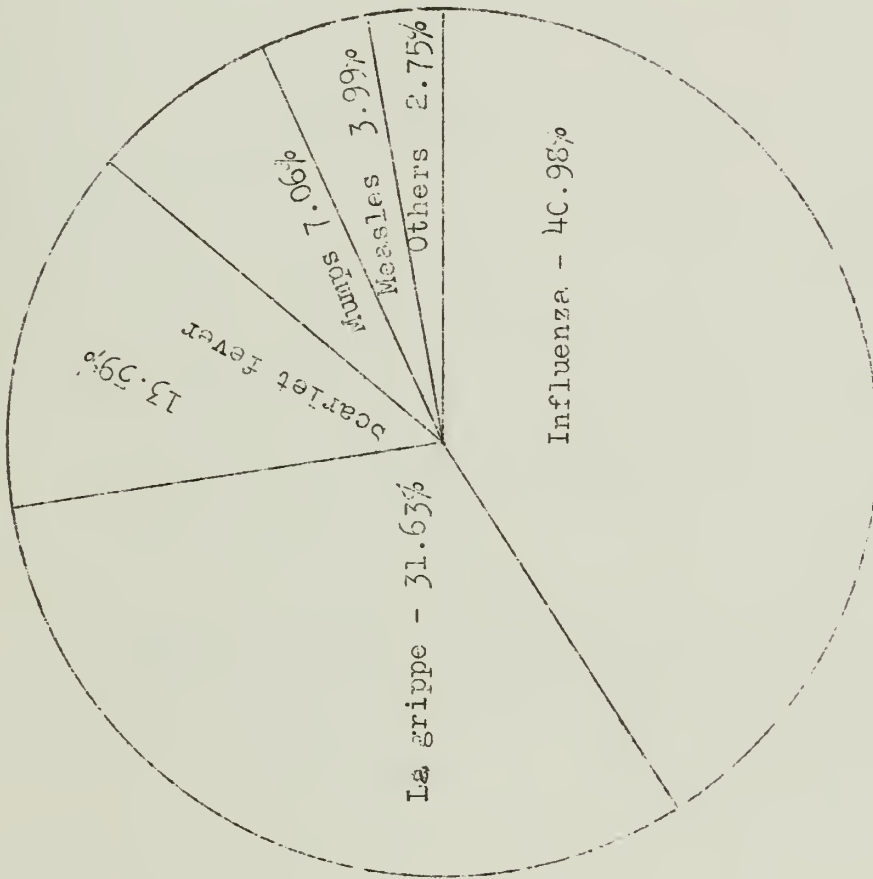
Incidence of Communicable Disease  
in the Student Body for the Biennium 1938--40

	<u>1939-40</u>	<u>1938-39</u>
Coryza. . . . .	866 . . .	1000
Coryza (hospitalized) . . . . .	934 . . .	616
Vincent's Angina . . . . .	96 . . .	91
Chickenpox. . . . .	4 . . .	4
Measles . . . . .	0 . . .	1
Mumps . . . . .	10 . . .	7
Scarlet fever . . . . .	11 . . .	13
Diphtheria . . . . .	12 . . .	2
Poliomyelitis . . . . .	1 . . .	0
Streptococcus Sore Throat . . . . .	5 . . .	0
Impetigo. . . . .	16 . . .	0
Scabies . . . . .	3 . . .	0
Amoebic Dysentery . . . . .	1 . . .	0
Total . . . . .	<u>1959</u> . . .	<u>1734</u>



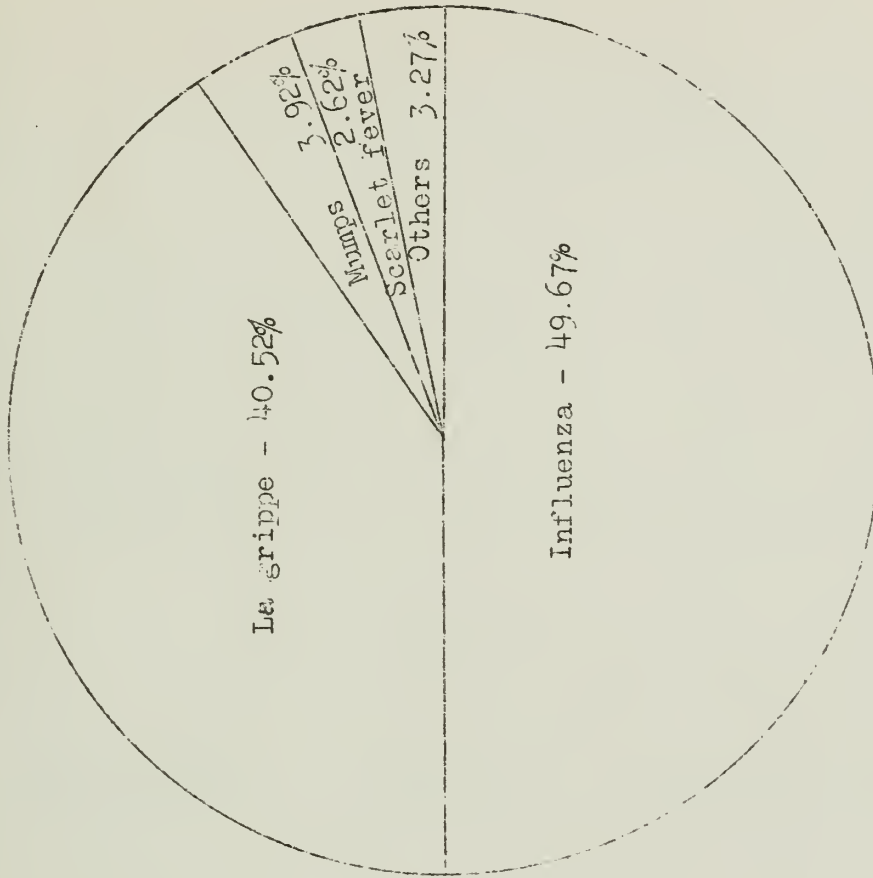
THE DISTRIBUTION OF HOSPITAL CASES AND DAYS  
FOR COMMUNICABLE DISEASES  
CARED FOR AT MCKINLEY HOSPITAL

DIVISION OF HOSPITAL DAYS



Vincent's angina ..	1.57%
Chickenpox .....	.92
Conjunctivitis ....	.26
Others .....	<u>2.75%</u>

DIVISION OF HOSPITAL CASES



Measles .....	1.63%
Vincent's angina ..	.98
Chickenpox .....	.33
Conjunctivitis ....	<u>.33</u>
Others .....	<u>3.27%</u>







By the modified quarantine for scarlet fever permitted by the State Department of Health, the loss of time from the classroom has been reduced to the minimum compatible with safety. Of the 168 students exposed to scarlet fever, 151 gave a positive Dick test, but were allowed to attend classes after daily observation. This procedure saved a total of 906 school days or the equivalent of a full semester for eight students.

Table 5

## Modified Quarantine for Scarlet Fever

<u>Number Exposed</u>	<u>Dick Tests</u>		<u>Certificates of having had the Disease</u>
	<u>Positive</u>	<u>Negative</u>	
168	151	17	18

Table 6

Disposition of Students  
Exposed to Communicable Disease

Contacts . . . . .	2859
Number held in quarantine. . . . .	38
Number permitted to attend classes under daily observation. . . . .	165
Number requiring no isolation under Regulations of the State Department of Health. . . . .	2656

Venereal Disease: The incidence of venereal disease among students is low. Six students were found to have gonorrhea,



and one syphilis as a result of voluntarily calling or through a "follow-up" on the basis of reports. There were 1040 Kahn tests given to students; of these, twenty-three positive reports were received on ten students; none of the Kahns were confirmed by a Wasserman test.

A Kahn test is a part of the routine physical examination of Civil Service employees. Ten were found to have either late or latent syphilis. The incidence of lues is higher in this group than in students because of age permitting a longer period of exposure and less information concerning the disease.

Vaccination for Spotted Fever: This year, as last, students and faculty members who expected to study and to do research in the Rocky Mountain region during their vacation, were inoculated against spotted fever. A total of four men and one woman was immunized. The vaccine was furnished without cost by the special laboratory of the U. S. Public Health Service at Hamilton, Montana. Spotted fever, however, is no longer confined to the Rocky Mountains but occurs in most of the states of the Union. Last year there were nineteen cases in Illinois.

Table 7

Immunizations for Communicable Diseases

Diphtheria . . . . .	24
Smallpox . . . . .	1685
Spotted fever. . . . .	5
Typhoid fever. . . . .	1516
	<hr/>
	3230



## HOSPITALIZATION

The Student Body: The facilities of the McKinley Hospital are a great insurance for the student body. A total of 2815 students was admitted to the Hospital for 9066 days, an average of 3.61 days per patient.

Of all the students hospitalized, 88 per cent were admitted to McKinley Hospital and only 12 per cent to other hospitals. The local hospitals, however, had 16 per cent of the student patronage in hospital days; the McKinley 84 per cent. This difference between percentage of cases and hospital days is due to the low average stay (3.61 days) of students in the McKinley Hospital for medical cases and the longer hospitalization in local institutions for surgical treatment.

As will be seen from the following table, 306 students with communicable disease were admitted to the McKinley Hospital for a stay of 1530 days or an average of 5.0 days per patient. Influenza was responsible for 152 or 49 per cent of the cases, and 627 or 40 per cent of the hospital days.

Table 8  
Student Cases of Communicable Disease Cared for at  
McKinley Hospital

<u>Disease</u>	<u>Cases</u>	<u>Days</u>
Influenza.....	152	627
La grippe.....	124	484
Mumps.....	12	108
Scarlet fever.....	8	208
Measles.....	5	61
Vincent's angina...	3	24
Chickenpox.....	1	14
Conjunctivitis.....	1	4
Total	306	1530



Civil Service Employees: During the year, University employees suffered 157 accidents in the line of duty. It was necessary to have eleven x-rays taken in order to exclude possible fractures. Of those injured, 105 required only minor surgical attention and 52 were referred to outside surgeons or specialists, for prolonged treatment. Fourteen employees were hospitalized for a total of 222 days, or an average of 15.8 days per patient. Five of these cases were herniotomies.

Table 9  
Hospitalization of Civil Service Employees

<u>Injury</u>	<u>Number</u>	<u>Days Hospitalized</u>
Hernia .....	5	60
Infected wrist.....	1	11
Chemical burns.....	1	20
Contusion occiput.....	1	24
Lacerated eye and scalp	1	12
Concussion of brain....	1	6
Broken toe.....	2	11
Crushed finger.....	1	48
Bruised foot.....	<u>1</u>	<u>30</u>
Total.....	<u>14</u>	<u>222</u>

Hospital Insurance: Membership in the student Mutual Benefit Association has been ably promoted by the office of the Dean of Men. Its energetic campaign induced 5432 students, faculty members, and employees to join during the first semester, and 4358 the second, which was 44.19 per cent of the student enrollment for the first, and 37.23 per cent the second sem-







ester of 1939-40.

This year two types of membership were made available to students, faculty members, and employees. A \$3.00 plan provided for 28 days ward care in any one semester plus \$1.00 allowance for laboratory or medical charges. A \$5.00 plan which included for the above, and a payment toward the physician's bill at the rate of \$3.00 per day for two-thirds the number of days hospitalized during the semester up to a maximum of two-thirds of 28 days at \$3.00 per day.

The total number of students having sickness insurance was somewhat increased by those patronizing companies now providing such a service. It is, nevertheless, regrettable that more students do not join the Association or otherwise provide protection for themselves, particularly during the second semester when sick rates are higher and hospitalization is often badly needed by those who can least afford it. As long as only a half or less of the student body has hospital insurance, efficiency in both the control of communicable disease and the rendering of prompt treatment of the ill leaves much to be desired. There is also a correlation between delay in medical attention and the increase of complications and the severity of the disease.

A number of insurance companies of varying degrees of merit are trying to sell insurance to students. The extent and



quality of the service they offer are not yet equal to that of the Student Mutual Benefit Hospital Association. Such companies generally offer much that will rarely be needed, but are more conservative where service is most likely to be used. Such action is essential where rates are low and considerable overhead has to be met before profits are made. However, the publicity associated with their bids for business causes some students to make provision for illness who otherwise would not do so.

Local Hospitals: The Mercy and Burnham Hospitals admitted 371 students for a total of 1,626 days, an average of 4.38 days per patient. The average length of stays in these hospitals were 8.84 and 3.94 respectively, which are longer than those of the McKinley Hospital by 36 per cent. They admit students requiring surgery; hence, the prolonged period of hospitalization.

The new wing on McKinley Hospital which has just been completed will provide 35 additional beds and will be ready for occupancy during the academic year 1940-41. The ratio of hospital beds to the student body is more favorable than at any time in the past, but it is still below the minimum recommended to stand the first shock of an epidemic in a student population of 13,000.



### MC KINLEY HOSPITAL

The academic year 1939-40 marked the completion of the south wing to the McKinley Hospital, a step toward the "H"-shaped structure ultimately planned. In construction and convenience, the new addition is the equal of any in the country. This improvement makes available ten private rooms, eight two-bed wards, and three six-bed wards. The normal bed capacity has been increased from 68 to 112, a gain of 44. While the new section was completed, it was not fully equipped and therefore not generally used during the year. Most cases of contagion, however, were housed on the second floor of the newly acquired annex with the use of old beds and equipment. The new furniture will be fully installed by September 1940.

### Furnishings and Color Scheme

The decorative scheme is designed to instill an attractive, home-like appearance to the student hospital and to escape the monotonous atmosphere of an institution. The rooms and furnishings combine beauty and utility, simplicity and serviceability. These features of comfort and artistry are particularly desirable in a University Hospital since so many of its patients are faculty members and students not seriously ill, who have a number of visitors both from within and without the community.



### Modernization of Kitchen

The hospital kitchen underwent an enlargement and modernization to make its facilities adequate to take care of the new wing as well as the present quarters. Some of its equipment was obsolete and faulty in operation. A new stainless steel gas range, a potato peeler, a dishwasher, a food warmer, a tray truck, and a number of sinks were installed. A new quarry tile floor and base were laid. The entire layout was remodelled for the most convenient and time-saving arrangement.

### Other New Equipment

New equipment was acquired in other departments also. Developing tanks and wall illuminators were added to the x-ray equipment. A new counter and a sign were provided for the Business Office. An adding machine and a typewriter were purchased. New furniture was placed in the Parent's Room. Shelves and cupboards were built in the Drug Room.

### Changes in Staff

The business of the hospital has reached such a volume that sound business procedure and the best interests of the University made the appointment of a full-time accountant necessary.

### Patients

The hospital was open for a period slightly over nine





months. The first patient was admitted September 12, 1939 and the last one discharged on June 17, 1940. A total of 2,815 patients were treated for a total of 9,066 days or for an average stay per patient of 3.61 days. Of this number 2507 were bed patients and 308 out patients. The highest number of bed patients in any one day was 110. Student patients made up 2573 of the total, faculty patients 114, and 128 miscellaneous. The number of patients having Hospital Association membership totaled 1,884; the benefits paid on these memberships amounted to \$21,800.40 or \$11.57 per patient.

#### Contagious Diseases

Twenty-four cases of scarlet fever were hospitalized, of which eight were students and sixteen were non-students. There were also nineteen cases of mumps, four diphtheria cases, three of Vincent's angina, one of chickenpox and one case of conjunctivitis. All of the diphtheria cases and seven of the mumps were non-students. In special instances, where it was to the advantage of the University, patients who were neither students nor employees were admitted to the McKinley Hospital. There were forty-eight such admissions.

#### Laboratory Service

The Clinical Laboratory made 2943 tests which are list-



ed in the following Table:

Table 10

<u>Clinical Laboratory Tests</u>		
Urinalysis. . . . .		2135
Blood counts		
Complete counts.....	244	
White and differential...	237	
White count.....	45	
Matching.....	35	
Specimens for State.....	18	
Cultures.....	10	
Sugar determination.....	6	
Malarial Smears.....	6	
Haemoglobin estimation...	3	
Determination of coagu-		
lation time.....	3	
Sedimentation.....	2	
Nonprotein nitrogen test.	2	
Urea determination.....	2	
Total Blood Counts . . . . .		613
Throat smears and cultures. . . . .		188
Haemoglobin of cerebrospinal fluid . . . . .		2
Urethral smears . . . . .		2
Determination of basal metabolism rate. . . . .		2
Friedman's pregnancy test . . . . .		1
Total Clinical Laboratory Tests		2943

In addition, 77 ultra-violet ray treatments were administered, sixty for tonic, ten for acne, and seven for athlete's foot. A total of 433 roentgrams were made by the X-ray Laboratory which may be summarized as follows:



Table 11

X-Ray Laboratory ExaminationsRoentgrams

Ankle.....	66	Pelvis.....	2
Chest.....	64	Mastoid.....	1
Finger.....	46	Gall bladder.	1
Foot.....	30	Trachea.....	<u>1</u>
Knee.....	29		
Wrist.....	28	Total Roentgrams	422
Elbow .....	17		
Tibia and fibula	17		
Shoulder.....	15	<u>Fluroscopy</u>	
Hand.....	14		
Clavicle.....	13	Finger.....	3
Toe .....	11	Shoulder....	2
Ribs.....	11	Ankle .....	1
Spine.....	10	Search for	
Ankle and foot...	7	foreign body	
Skull.....	6	in trachea.	1
Sinuses.....	5	Clavicle....	1
Nose.....	5	Toe.....	1
Hip.....	5	Elbow.....	<u>1</u>
Sacrum.....	5		
Radius and Ulna..	3	Total Fluroscopy	10
Kidney bladder...	3		
Jaw.....	3	<u>Pyelography</u>	<u>1</u>
Dental.....	2		
Femur.....	2	Total X-Rays	433

## COOPERATION WITH OTHER DEPARTMENTS

Military Science and Physical Education

(a) Permanent Classification: During the year it was necessary to assign 153 men and 27 women to individual gymnastics for special training. Because of marked physical abnormalities



or organic disease, one hundred and thirteen students were classified as unable to take either regular physical education or military.

There were twenty-one students permanently excused from military because of failure to meet the minimum requirements of the Medical Department of the Army. One student who was below the minimum standards for commission but who desired to take military and was physically able to drill without unusual risk was assigned to it on his own request.

(b) Advanced Corps Students: The Health Service administered 257 doses of typhoid vaccine and vaccinated 212 students against smallpox who were planning to attend the Reserve Officers Training Camps. In cooperating with the Army Medical Corps, 321 urinalyses were made upon candidates for advanced military training.

(c) Temporary Excuses: During the year, 197 men students were given temporary excuses from military, physical education, or both; eighty-one from military only, and 116 from physical education only. They had undergone recent operations, or had lost so much time on account of illness that they could not complete satisfactorily the work for the semester.





Students suffering from certain forms of dermatitis, sinusitis, infection of the middle ear, or perforation of the ear drum were transferred from swimming to a form of exercise less likely to cause them trouble. A total of seventy-three recommendations were made to change students from one type of physical education to another or for modifications of their required exercise.

#### The Personnel Bureau

The Bureau has referred students to the Health Service for a recheck of their physical condition, metabolism tests, or further determination of their acuity of vision. Eight students were given telebinocular examinations, six were given metabolism estimates, and a number of others advised as to their health.

#### INSTRUCTION IN HYGIENE

Compilation of the results of 2876 questionnaires filled out by freshmen registered in Hygiene 2 and 5 revealed that only sixty teachers of hygiene in the high schools attended by those students, gave full time instruction in health education. The greater percentage taught the subject as a "side line." Illinois is still far behind in having its teaching of



hygiene and sanitation of a quality comparable to their importance to the individual and to the State.

The survey (see Appendix F) reveals furthermore, that students who do not attend college do not receive sufficient training in high schools in regard to personal health, nutrition, sanitation, the control of communicable disease, and healthful living to meet intelligently the demands of our highly complex society. The seriousness of this situation becomes apparent when we recall that only 10 per cent of those graduating from high school attend institutions of higher learning, and science can only be applied to the general welfare in a democracy by support of the people. This educational deficiency assumes the aspects of a menace in a chaotic world of rapid transportation, shifting troops, demolished cities, and life in bomb shelters.

Proficiency Examination: A total of forty-seven students passed the proficiency test in hygiene and received credit in the subject. Of these, three were students from outside this State. The distribution by colleges of those who passed the proficiency test during the past year is given in Table 12.



Table 12

Classification of Those Who Passed  
Hygiene 2 and 5 Proficiency Examinations

<u>By College</u>		<u>By Location</u>	
Liberal Arts and Sciences	28	In State.....	44
Engineering.....	6	Out of State...	<u>3</u>
Agriculture.....	6	Total	47
Commerce.....	3		
Fine and Applied Arts....	1		
Physical Education.....	2		
Education.....	<u>1</u>		
Total	47		

Elementary Hygiene: In the first semester, elementary hygiene and sanitation were taught to 1,590 students, of which 1,168 were men and 422 were women. The total registration for both semesters in elementary hygiene was 3,066. There were 28 sections for the men and 10 for the women each semester.

Advanced Hygiene: The advanced course in hygiene for coaches, physical education majors, and teachers had a total registration for the year of 148 students. During the first semester the enrollment was forty students; in the second, 108.

Hygiene X3: In cooperation with the Director of the University Extension Service, a correspondence course in hygiene has been offered, which has had a registration of twenty-nine students. The quality of the work presented by those taking it was most satisfactory. This training should better prepare them



to protect themselves and their families and to function more intelligently as citizens interested in improving living conditions in their community.

### SANITATION

Student Lodging House Inspection: During the year, the Health Service continued its inspection of student rooming houses to ascertain conditions under which students live and wherever needed, to improve their safety and sanitation. The cooperation of the housemothers and proprietors was also sought. Particularly hazardous conditions were reported to the local fire chiefs and the Division of Student Housing of the University.

The standards for safety and sanitation recommended by the American Public Health Association in its "Basic Principles of Healthful Housing" were adopted as a general guide in determining the excellence of student living quarters. Besides the routine house inspections, the map of the Student District was revised and brought up to date.

Number of Houses Inspected: While it was not practical to inspect all the lodging houses of the 13,181 students enrolled, a sufficient number were re-visited to get indication of existing conditions. In most instances the houses visited were those which previous inspections had shown to be substandard in some respects. The number of houses inspected were as follows:





<u>Women</u>		<u>Men</u>	
Independents	64	Approved	38
Sororities	<u>1</u>	Non-approved	83
		University operated	5
Total Women...	65	Fraternities	<u>4</u>
		Total Men.....	130

Total Men and Women.....195

Occupancies and capacities: The occupancies, capacities, and rooms available were as indicated below:

<u>Women</u>	<u>Occupancies</u>	<u>Capacities</u>	<u>Rooms Available</u>
Independent.....	749	869	355
Sororities.....	<u>43</u>	<u>43</u>	<u>18</u>
Total Women..	792	912	373
<u>Men</u>			
Approved.....	353	404	181
Non-approved.....	605	692	375
Fraternities.....	151	231	67
University operated	<u>26</u>	<u>28</u>	<u>9</u>
Total Men,...	1135	1355	632
Total Men & Women	1927	2267	1005

Attitude Toward Inspection: The following attitudes of lodging house keepers were noted by the student inspectors:



1. Definitely interested, anxious to learn how to improve facilities, and very cooperative. . . . .68%
  2. Cooperative but not particularly interested. . . . .23%
  3. Indifferent. . . . .5%
  4. Hostile. . . . .4%
- Indicated by:
- a) Not permitting inspection at first visit
  - b) Reluctant to permit inspection
  - c) Regarding inspection as waste of time

Number of Students per Room: From the standpoint of scholarship and sanitation, not more than two students to a room seems most desirable. The number of occupants per room was as follows:

	One Student	Two Students	Three Students	Four Students
% of Women Independent rooms with	23 . . .	52 . . .	24 . . .	1
% of Men's Approved rooms with	20 . . .	67 . . .	10 . . .	3
% of Men's Non-approved rooms with	30 . . .	55 . . .	10 . . .	5
% of Men's Approved and Non-approved rooms	26 . . .	60 . . .	10 . . .	4
% of Women's and Men's rooms with	24 . . .	57 . . .	16 . . .	3

Size of Rooms and Dormitories: "The Basic Principles of Healthful Housing" specifies 400 cubic feet per occupant as



a minimum if a room is used only as a study or sleeping room, or 500 cubic feet if used for both purposes; the floor area is adequate if it is 50 square feet in a study room or 63 square feet in a room used for both studying and sleeping; the ventilation and amount of daylight entering a room is sufficient if the window area is at least 15 per cent of the floor space. With these minima as basis for comparison, the following results were noted:

1. The per cent of inadequate study rooms was as follows:

	<u>Cubage</u>	<u>Floor Area</u>	<u>Window Area</u>
% of Women Independent rooms	3. . . . .	5 . . . . .	29
% of Men approved rooms	8. . . . .	10 . . . . .	22
% of Men non-approved rooms	7. . . . .	5 . . . . .	24
% of Men and Women's rooms	6. . . . .	7 . . . . .	26

2. The following per cent of dormitories was not of sufficient size:

	<u>Cubage</u>	<u>Floor Area</u>	<u>Window Area</u>
% of Women Independent rooms	65. . . . .	44 . . . . .	67
% of Men approved rooms	52. . . . .	42 . . . . .	43
% of Men non-approved rooms	46. . . . .	36 . . . . .	54
% of Men & Women's rooms	53. . . . .	39 . . . . .	53

At the time of the Health Service inspections, the Division of Student Housing had not yet adopted the above standards in approving houses.



Lighting: The types of lamps found in student rooms and the wattage of their bulbs were as listed below:

	LAMPS		OTHER	WATTAGE	
	<u>IES</u>	Goose-neck	<u>Direct</u>	100 W. or over	Less than 100 W.
Women independent	298	107	146	304	247
Men approved	305	9	11	299	26
Non-approved men	436	47	39	437	85
Total men	741	56	50	736	111
Total men & women	1039	163	196	1040	358

Fire Escapes: Effort has been concentrated on getting operators of three story lodging houses to equip them with fire escapes in accordance with the State Fire laws. This year emphasis has been placed on the correction of deviations from the specifications provided in the Fire Escape Requirements of the State Department of Insurance, Division of Fire Prevention. Eight lodging houses, three stories in height, were found without fire escapes. The following defects were the most numerous:

1. Exits to the fire escape were windows and not standard doors,  $2\frac{1}{2} \times 5$  feet wide.
2. The exits were not level with the floor.
3. The exits did not open outward but inward, or raised.





4. The fire ladders or porch roofs to which the ladders led were over eight feet from the ground.
5. The ladders were less than three feet from the building.
6. There were no platforms outside the exits or else they were less than 3x6 feet in size.
7. The ground was dangerous to land upon after dropping from the ladder because of trees, garden ornaments, fences, shrubs, etc.

Fire Hazards: A very common danger found in student rooming houses is the storing of ashes in combustible containers; only by frequent inspections can this unsafe condition be reduced. Another prevalent hazard is placing combustible materials near sources of ignition. Hazardous electric wiring was detected in some houses. Fire risks may be summarized as follows:

		<u>Combustible Ash Containers</u>	<u>Combustible Material</u>	<u>Hazardous Elec.Wiring</u>
Women Independent		9	22	2
Men Approved	2		24	2
Non-approved	13		42	3
Total		<u>15</u>	<u>66</u>	<u>5</u>
Total Men and Women		24	88	7

Bathroom Facilities: A bathroom unit (tub, shower, lavatory, and stool) was recorded as adequate if there was one unit to every ten persons using it. About 13 per cent of the lodging houses inspected could not meet this standard.



Cleanliness and Tidiness: The various parts of the houses checked were graded as follows as to cleanliness and tidiness:

	<u>Women</u>	<u>Men</u>	<u>Men</u>	<u>Total</u>	<u>Total</u>
	<u>Independent</u>	<u>Approved</u>	<u>Non-approved</u>	<u>Men</u>	<u>Men &amp; Women</u>
<u>Yard</u>					
Excellent	--	--	1	1	1
Good	59	31	73	104	163
Fair	4	5	6	11	15
Poor	--	--	--	--	--
<u>Halls &amp; Stairs</u>					
Excellent	4	22	1	1	1
Good	47	27	45	72	119
Fair	8	7	14	21	29
Poor	--	--	--	--	--
<u>Basement</u>					
Excellent	--	--	--	--	--
Good	34	16	48	64	98
Fair	17	20	28	48	65
Poor	5	--	1	1	6
<u>Study Rooms</u>					
Excellent	--	--	1	1	1
Good	40	28	60	88	128
Fair	10	16	17	33	43
Poor	--	--	--	--	--
<u>Dormitories</u>					
Excellent	--	--	--	--	--
Good	12	14	20	34	46
Fair	--	3	5	8	8
Poor	--	--	--	--	--
<u>Bathrooms</u>					
Excellent	--	--	--	--	--
Good	30	31	66	97	136
Fair	2	2	13	15	17
Poor	2	--	--	--	2



Swimming Pools: Immediate attention has been given to reports which have been received concerning the conditions of the swimming pools and water supply. No colon bacilli were reported found during the year. The pools and water supply of the University have been well supervised by an able and conscientious Sanitary Engineer.

#### FIRST AID

A total of 123 first aid cabinets is being maintained in the various buildings on the campus. They are much used and are visited weekly or twice weekly, depending upon their location, to replace supplies as needed.

It has been customary for a number of years for members of the Health Service staff upon request, to attend certain University functions in order to render first aid if necessary. This service was given at the Electrical Engineering Show, the Physical Education Tournaments, Farm and Home Week Programs, and the Commencement Exercises.

In cooperation with other departments, the offices of the Health Service were also made available in emergencies to guests of the University. Its facilities were offered to those attending Farm and Home Week, 4-H Club Conventions, and short courses given by the University.



## LABORATORY SERVICE

As a part of the routine work of the Health Service, various laboratory services were given the students and Civil Service employees. In many instances these tests were essential either in making effective the regulations of the University concerning foodhandlers or in diagnosing and controlling communicable disease. The bacteriological tests recorded herewith were largely made by the branch laboratory of the State Department of Health on specimens submitted by members of the medical staff of the Health Service. It is a pleasure to acknowledge our indebtedness to it.

Table 13

## Laboratory Tests

Urinalyses . . . . .	9525
Kahn tests . . . . .	1040
Wassermann tests . . . . .	95
Bacteriological examinations of excreta. . . . .	1190
Diphtheria cultures. . . . .	149
Smears for Vincent's angina. . . . .	297
Smears from the urethra. . . . .	131
Blood examinations (white cells) . . . . .	12
Basal metabolism tests . . . . .	57
Sputum examinations . . . . .	10
Agglutination tests for undulant fever . . . . .	6
Blood smear for malaria. . . . .	2
X-ray examinations . . . . .	52
Total. . . . .	12566





Table 14

## Positive Laboratory Tests

Smears for Vincent's angina . . . . .	86
Kahn tests for syphilis . . . . .	36
Bacteriological examinations of excreta . . . . .	1
Smears from the urethra for gonorrhea . . . . .	4
Throat swabs for diphtheria . . . . .	<u>23</u>
Total. . . . .	150

## REQUESTS FOR INFORMATION

A total of 146 citizens of the State have requested information on various aspects of public health. Requests were also received for reprints of articles by members of the department and for copies of forms used by the Health Service. Questionnaires from numerous sources have been many, varied and often quite comprehensive. This form of survey seems to be increasing in popularity.

## THE GENERAL PRACTITIONER AND THE HEALTH SERVICE

The medical staff of the Health Service has had the most helpful cooperation of local and family physicians in caring for students. A total of 249 letters have been received concerning the physical conditions of students who are or have been patients of these doctors. From Table 15 it is seen they have made 714 certifications relative to communicable disease.



Table 15

## Certificates of Immunity

Smallpox	
By illness. . . . .	8
By vaccination. . . . .	137
Typhoid fever	
By illness. . . . .	1
By inoculation. . . . .	107
Diphtheria	
By immunization . . . . .	4
Scarlet fever	
By illness. . . . .	235
By immunization . . . . .	3
Dick test given . . . . .	<u>219</u>
Total . . . . .	714

The number of students admitted to local hospitals during the academic year was 3173. Of this number, 2676 were sent to the hospitals by local doctors, and 497 went directly from the Health Service Station. The 497 who went to the hospitals from the Health Service Station chose fifty-one different doctors to attend them while ill.

## STUDENT DEATHS

It is with much regret that I report the death of three students during the year. Of these deaths, one was caused by an automobile accident, one died of pneumonia, and one of cerebral hemorrhage.







TWENTY-FOURTE ANNUAL REPORT

APPENDIX A





## APPENDIX A

Table I

## TYPES OF MEDICAL ATTENTION TO STUDENTS AND EMPLOYEES

	<u>1938-39</u>	<u>1939-40</u>
Advice in case of illness .....	2614	3138
First aid in injury and infection .....	3295	2938
Sent to hospital .....	649	576
Referred to specialist .....	1073	1898
Urinalyses .....	11115	9261
Complete physical examinations of students and employees .....	5333	3727

Table II

## MONTHLY DISTRIBUTION OF VISITS

	<u>Student</u>		<u>Civil Service</u>		<u>Total</u>
	<u>Men</u>	<u>Women</u>	<u>Men</u>	<u>Women</u>	
July.....	1039	672	181	14	1906
August.....	2294	500	263	--	3057
September...	7701	1923	121	4	9749
October.....	4867	2031	80	16	6994
November....	3555	1498	112	17	5182
December....	1976	1107	98	10	3191
January.....	3074	1269	75	15	4433
February....	3923	1857	48	24	5852
March.....	4124	1332	82	12	5550
April.....	3011	1661	99	13	4784
May.....	2765	1321	154	10	4250
June.....	905	616	185	17	1723
Totals...	39234	15787	1498	152	56671

Table III

## CLASSIFICATION OF INJURIES TO CIVIL SERVICE EMPLOYEES FOR FIVE YEARS

	<u>1935-1936</u>	<u>1936-1937</u>	<u>1937-1938</u>	<u>1938-1939</u>	<u>1939-1940</u>
Abrasions	13	12	13	11	16
Amputations	--	--	--	--	--
Accident automobile (death)	--	--	--	--	--
Avulsions	--	--	--	--	--
Bites	--	2	--	--	--
Blisters	--	1	--	--	1
Broken bones	2	--	--	--	--
Bruise	5	7	1	2	4



Table III (cont'd)

	<u>1935-1936</u>	<u>1936-1937</u>	<u>1937-1938</u>	<u>1938-1939</u>	<u>1939-1940</u>
Burns, acid .....	8	5	1	-	3
others .....	3	8	9	7	5
Contusions .....	39	21	13	12	13
Concussions .....	1	-	-	-	-
Dislocations .....	-	-	-	-	-
Excoriations .....	1	2	-	-	-
Finger nail torn loose	-	1	-	-	-
Flashed eye .....	1	-	-	-	-
Foreign body, eye .....	10	17	14	14	8
Fractures .....	-	7	3	1	2
Gas inhaled .....	-	2	-	-	-
Heat stroke .....	1	2	-	-	2
Hernia .....	6	3	-	-	-
Incisions .....	-	-	-	-	1
Infections .....	-	9	11	4	12
Inflammations .....	1	2	-	-	-
Injuries .....	4	-	7	2	22
Lacerations, incisions	27	32	22	-	34
abrasions, and punc-					
ture wounds .....	-	-	6	1	-
Muscle soreness .....	1	-	1	-	-
Pain .....	-	-	-	-	-
Phlebitis .....	-	-	-	-	-
Poisoning .....	-	-	-	-	-
Poison ivy .....	6	1	-	-	-
Puncture wound .....	-	9	4	5	3
Rabies virus on skin ..	-	-	-	-	-
Rupture varicosity ....	-	-	-	-	-
Sliver and splinter ...	5	5	4	5	7
Sprain and strain .....	21	11	7	17	10
Torn ligament .....	-	2	-	-	-

Table IV

## LABORATORY EXAMINATIONS

	<u>Positive</u>	<u>Negative</u>	<u>Total</u>
Bacteriological examinations of excreta ....	1	1189	1190
Sputum for tuberculosis .....	-	10	10
Kahn test for syphilis .....	36	1209	1245
<del>Kahn test.</del>			
Hemolyzed .....			29
Doubtful .....			15
Wassermann tests .....	2	93	95
Throat cultures, diphtheria .....	23	126	149
Throat cultures, streptococcus .....	3	-	3
Smear, Vincent's angina .....	85	211	296
Agglutination test for undulant fever .....	-	6	6
Urethral smears .....	4	127	131
Malaria blood smear .....	-	2	2
X-ray examinations .....	-	-	-
Blood examinations (white cells) .....	-	-	-
Basal metabolism test .....	-	-	-
Eye cultures .....	-	-	-



Table V

## CASES CARED FOR AT MCKINLEY HOSPITAL

	<u>Communicable</u>			<u>Non-Communicable</u>			<u>Total</u>	
	<u>Cases</u>	<u>Days</u>		<u>Cases</u>	<u>Days</u>		<u>Cases</u>	<u>Days</u>
July .....	—	....	—	....	—	....	—	....
August .....	—	....	—	....	—	....	—	....
September ....	3	....	7	....	119	....	122	..219
October .....	13	....	43	....	272	....	285	..757
November .....	28	....	100	....	298	....	326	..844
December .....	14	....	140	....	231	....	245	..875
January .....	155	....	625	....	443	....	598	..2027
February .....	33	....	233	....	278	....	311	..1124
March .....	24	....	211	....	298	....	322	..1200
April .....	30	....	217	....	297	....	327	..1069
May .....	15	....	111	....	229	....	244	.. 719
June .....	—	....	17	....	22	....	22	.. 155
Total .....	315	....	1704	....	2487	....	2802	..8989

Table VI

AVERAGE HOSPITAL STAY  
Percentage of Students Using Hospitals

<u>Year</u>	<u>Average Hospital Stay</u>		<u>Percent of Students Using Hospitals</u>
1934-1935 .....	3.65	.....	24.6
1935-1936 .....	3.89	.....	24.3
1936-1937 .....	3.81	.....	24.8
1937-1938 .....	3.39	.....	21.43
1938-1939 .....	3.45	.....	25.31
1939-1940 .....	3.34	.....	24.07





Table VII

## CASES CARED FOR AT MC KINLEY HOSPITAL

	1937-1938		1938-1939		1939-1940	
	Cases	Days	Cases	Days	Cases	Days
Angina . . . . .	--	--	3	9	2	16
Chickenpox . . . . .	9	69	3	25	1	3
Diphtheria . . . . .	1	14	--	--	2	28
Influenza . . . . .	4	11	889	3007	276	1111
Malaria . . . . .	2	7	--	--	1	2
Measles . . . . .	12	88	3	14	--	--
Mumps . . . . .	6	57	13	104	13	104
Pneumonia . . . . .	--	--	8	51	--	--
Scarlet fever . . . . .	4	81	8	211	20	440
Total. . . . .	38	327	927	3421	315	1704

Table VIII

## ELEMENTARY HYGIENE

	<u>Number of Students</u>	<u>Number of Sections</u>
Hygiene V		
Men, First Semester . . . . .	1168	28
Men, Second Semester . . . . .	1059	28
Hygiene II		
Women, First Semester . . . . .	422	10
Women, Second Semester . . . . .	417	10

## ADVANCED HYGIENE

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Hygiene X			
First Semester . . . . .	31	9	40
Second Semester . . . . .	91	17	108





Table IX

41

## FAMILY HISTORY OF INHERITABLE DISEASES

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Apoplexy. . . . .	.39	1.92	23	.68	19	1.4	42	.89
Cancer . . . . .	15.	12.78	293	8.77	202	14.94	495	10.55
Goiter . . . . .	3.25	7.38	132	3.95	114	8.43	246	5.24
Mental distur-								
ances . . . . .	.75	1.12	37	1.1	11	.81	48	1.02
Diabetes . . . . .	3.96	9.23	181	5.42	133	9.83	314	6.69
Kidney disease	1.87	4.94	64	1.91	35	2.59	99	2.11
Epilepsy . . . . .	.33	--	9	.23	6	.44	15	.32
Tuberculosis . . . . .	3.34	9.02	169	5.06	93	6.88	262	5.58

Table X

## INJURIES

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Head . . . . .	4.87	2.17	142	4.25	23	1.7	165	3.51
Chest . . . . .	3.9	1.38	80	2.39	7	.51	87	1.85
Abdomen . . . . .	.50	.07	16	.48	--	--	16	.34
Arm . . . . .	13.18	5.47	466	13.95	97	7.16	563	12.
Leg . . . . .	7.58	3.62	323	9.67	63	4.65	386	8.2
Others . . . . .	2.67	3.69	178	5.32	23	2.7	201	4.28

Table XI

## OPERATIONS

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Head								
Tonsils . . . . .	47.02	59.62	1791	53.57	829	61.31	2620	55.85
Adenoids . . . . .	26.85	8.23	1136	34.02	93	6.87	1229	26.17
Others . . . . .	3.53	4.02	93	2.78	44	3.24	137	2.92
Chest . . . . .	.45	.20	11	.32	4	.29	15	.32
Abdomen . . . . .	9.28	10.67	306	9.16	158	10.68	464	9.89
Circumcision . . . . .	6.63	--	279	8.35	--	--	279	5.94
Others . . . . .	3.04	2.31	152	4.04	43	3.1	195	4.15



Table XII

## USE OF TEA, COFFEE, AND TOBACCO

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Tea . . . . .	18.05	42.75	825	24.71	599	44.30	1424	30.36
Coffee . . . . .	37.86	46.84	1386	41.51	599	44.30	1985	42.31
Tobacco . . . . .	22.48	25.63	1143	34.24	312	23.08	1455	31.02
None of 3 . . . . .	39.14	25.76	1121	33.57	223	16.49	1344	28.67

Table XIII

## SLEEPING HABITS

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.		No.		No.	
Under 6 hrs. . . . .	.20	.26	25	.74	2	.15	27	.57
6 to 7 hrs. . . . .	10.7	13.04	355	10.63	154	11.39	509	10.85
8 to 9 hrs. . . . .	84.11	79.31	2742	82.12	1097	81.13	3839	81.84
10 hrs. & over . . . . .	4.93	7.38	217	6.50	99	7.32	316	6.52

Table XIV

## STUDENTS GIVING HISTORIES OF TYPHOID FEVER

Class of 1930 . . . . .	3.72	Class of 1937 . . . . .	2.28
Class of 1931 . . . . .	2.79	Class of 1938 . . . . .	2.57
Class of 1932 . . . . .	2.83	Class of 1939 . . . . .	1.46
Class of 1933 . . . . .	3.02	Class of 1940 . . . . .	1.14
Class of 1934 . . . . .	2.09	Class of 1941 . . . . .	.69
Class of 1935 . . . . .	2.08	Class of 1942 . . . . .	.94
Class of 1936 . . . . .	2.21	Class of 1943 . . . . .	.94



RELATIVE OCCURRENCE OF CERTAIN DISEASES IN HISTORIES OF THE CLASS  
OF 1943

	1942				1943				Total
	Men	Women	Men		Women		Total		
	%	%	No.	%	No.	%	No.	%	
Appendicitis . . .	9.55	12.58	340	10.18	183	13.53	523	11.12	
Asthma . . . . .	1.67	1.84	67	2.	24	1.77	91	1.94	
Chickenpox . . .	57.6	73.32	1944	58.22	983	72.7	2927	62.39	
Chorea . . . . .	.08	.13	3	.09	--	--	3	.06	
Constipation . . .	.84	6.06	38	1.13	100	7.39	138	2.94	
Diabetes . . . . .	.19	.07	3	.09	7	.51	10	.21	
Diphtheria . . .	5.91	3.62	159	4.76	60	4.43	219	4.66	
Discharging ear . .	3.12	6.85	133	3.98	100	7.39	233	4.96	
Dysentery . . . . .	.50	1.19	16	.47	12	.68	28	.59	
Epilepsy . . . . .	--	.006	2	.06	--	--	2	.04	
Heart trouble . . .	2.45	3.49	58	1.73	32	2.36	90	1.91	
Hay fever . . . . .	5.88	6.46	229	6.85	110	8.13	339	7.22	
Hernia (rupture) . .	2.95	.33	111	3.32	7	.51	118	2.3	
Infantile paralysis	1.34	1.32	23	.68	8	.59	31	.66	
Influenza . . . . .	9.94	16.53	519	15.45	302	22.33	821	17.48	
Kidney trouble . . .	1.34	2.90	39	1.16	42	3.1	81	1.72	
Malaria . . . . .	2.23	2.44	86	2.57	28	2.07	114	2.43	
Measles . . . . .	79.92	87.29	2975	89.09	1177	87.05	4152	88.51	
German measles . . .	20.39	32.61	501	15.	490	36.24	991	21.12	
Meningitis . . . . .	.28	.26	7	.21	3	.22	10	.21	
Mumps . . . . .	53.12	53.16	1747	52.32	720	53.24	2467	52.59	
Nervous breakdown . .	.19	1.58	7	.02	13	.96	20	.42	
Pleurisy . . . . .	1.34	2.11	53	1.58	30	2.21	83	1.76	
Pneumonia . . . . .	9.33	11.26	320	9.58	139	10.28	459	9.78	
Rheumatism . . . . .	1.73	2.04	63	1.88	33	2.44	96	2.04	
Scarlet fever . . .	17.24	19.36	585	17.51	237	17.52	822	17.52	
Sinusitis . . . . .	3.54	5.20	131	3.92	82	6.06	213	4.54	
Smallpox . . . . .	3.26	2.57	100	2.99	36	2.66	136	2.89	
Tonsillitis . . . . .	16.02	20.22	660	19.76	334	24.7	994	21.18	
Trachoma . . . . .	.028	.065	2	.06	4	.29	6	.12	
Tuberculosis . . . . .	.25	.20	10	.29	3	.22	13	.27	
Typhoid fever . . .	.81	1.25	31	.92	13	.96	44	.93	
Undulant fever . . .	.22	.07	7	.02	2	.14	9	.19	
Whooping cough . . .	49.36	63.31	1627	48.69	865	63.98	2492	53.12	
Others . . . . .	4.09	2.37	304	9.1	22	1.62	326	6.94	
IMMUNIZATIONS:									
Diphtheria . . . . .	33.87	30.70	1326	39.71	527	38.97	1853	39.5	
Scarlet fever . . .	15.57	13.37	544	16.29	214	15.82	758	16.15	
Smallpox . . . . .	79.14	85.51	2647	79.3	1156	84.76	3803	81.07	
Typhoid fever . . .	20.50	13.31	657	19.67	191	14.12	848	18.07	
TESTS:									
Schick . . . . .	17.83	21.67	779	23.33	375	26.99	1154	24.6	
Dick . . . . .	7.47	9.03	332	9.99	161	11.9	493	10.5	



Table XVI

## GENERAL DEVELOPMENT

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Excellent . . .	.36	1.05	16	.47	26	1.92	42	.89
Good . . . . .	94.07	95.06	2825	84.6	1283	94.89	4108	87.57
Fair . . . . .	5.43	3.75	482	14.43	42	3.1	524	11.17
Poor . . . . .	.14	.13	16	.47	1	.07	17	.36
BUILD:								
Stocky . . . .	8.80	10.14	219	6.55	149	11.01	368	7.84
Medium . . . .	72.06	45.59	2299	68.85	662	48.96	2961	63.12
Slender . . . .	19.14	44.27	821	24.58	541	40.01	1362	29.03

Table XVII

## COLOR OF EYES

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Blue . . . . .	41.50	36.23	1610	48.21	511	37.79	2121	45.21
Gray . . . . .	5.69	6.98	135	4.04	117	8.65	252	5.37
Greenish . . .	7.27	9.62	244	7.31	127	9.31	371	7.91
Hazel . . . . .	10.06	14.49	182	5.45	117	8.65	299	6.37
Brown . . . . .	34.93	30.63	1149	34.11	440	32.54	1589	33.87
Black . . . . .	.38	2.04	19	.56	40	2.95	59	1.25

Table XVIII

## COLOR OF HAIR

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Flaxen . . . .	9.27	11.13	179	5.36	173	12.79	352	7.5
Reddish . . . .	2.98	4.02	83	2.48	56	4.14	139	2.96
Light brown . .	24.37	29.91	913	27.34	380	28.1	1293	27.54
Brown . . . . .	33.06	29.05	446	13.35	272	20.11	718	15.3
Dark brown . .	15.91	19.82	1322	39.59	377	27.88	1699	36.21
Black . . . . .	14.40	16.06	396	11.85	94	6.95	490	10.44





Table XIX

## TEETH

	1942		1943				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Cavities . . .	19.33	6.92	546	16.35	166	12.28	712	15.18
Absent . . . .	44.90	23.19	1493	44.71	344	25.44	1837	39.29
Need cleaning	13.87	2.50	379	11.35	57	4.22	436	9.29
Diseased gums	1.39	1.38	10	.30	15	1.11	25	.53
No cavities, none absent	42.73	65.48	1444	43.25	820	60.66	2264	48.26
Teeth devital- ized . . . .	3.37	3.03	71	2.13	24	1.78	95	2.02

Table XX

## ABNORMALITIES OF THE HEART

	1942		1943				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Abnormalities	1.56	.86	28	.84	3	.22	31	.66
Irregular pulse	.14	.66	6	.18	--	--	6	.13

Table XXI

## THYROID ENLARGEMENT

	1942		1943				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Enlarged								
Slight. . . .	.67	12.25	25	.74	142	10.5	167	3.56
Moderate . .	.16	1.32	1	.02	20	1.47	21	.44
Marked . . .	--	--	1	.02	1	.07	2	.04
Evidence of toxicity. . .	--	.33	1	.02	3	.22	4	.08



Table XXII

## CHEST AND LUNGS

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Lungs, abnormal .	.28	.20	12	.35	9	.66	21	.44
Chest:								
Flat . . . . .	2.62	6.79	302	9.04	55	4.06	357	7.6
Funnel . . . . .	1.31	2.44	25	.75	6	.44	31	.66
Pigeon . . . . .	.17	1.38	10	.29	15	1.1	25	.53

Table XXIII

## CONDITION OF ABDOMINAL WALLS

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Abnormal . . . . .	.11	.79	3	.09	6	.44	9	.19
Hernia . . . . .	.86	.20	29	.86	5	.37	34	.72

Table XXIV

## INCIDENCE OF ENLARGED LYMPH GLANDS

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Epitrochlear . . .	3.15	.07	22	.65	1	.07	23	.49
Axillary . . . . .	4.35	.86	48	1.43	2	.14	50	1.06
Cervical . . . . .	8.38	11.59	126	3.77	64	4.73	190	4.05
Inguinal . . . . .	17.99	3.56	502	15.03	16	1.18	518	11.04

Table XXV

## HERNIA IN MEN

Class of 1930 . . . . .	1.35	Class of 1937 . . . . .	1.19
Class of 1931 . . . . .	1.26	Class of 1938 . . . . .	1.16
Class of 1932 . . . . .	1.41	Class of 1939 . . . . .	.76
Class of 1933 . . . . .	1.74	Class of 1940 . . . . .	.70
Class of 1934 . . . . .	1.30	Class of 1941 . . . . .	1.20
Class of 1935 . . . . .	1.71	Class of 1942 . . . . .	.86
Class of 1936 . . . . .	.71	Class of 1943 . . . . .	.90



Table XXVI

## GENITO-URINARY ORGANS

	1942		1943
	%	No.	%
Testes Abnormal . . . . .	.36	30	.89
Circumcision . . . . .	31.25	279	8.35

Table XXVII

## CRYPTORCHIDISM

Class of 1930 . . . . .	.71	Class of 1937 . . . . .	.32
Class of 1931 . . . . .	.38	Class of 1938 . . . . .	.43
Class of 1932 . . . . .	.60	Class of 1939 . . . . .	.03
Class of 1933 . . . . .	.32	Class of 1940 . . . . .	.29
Class of 1934 . . . . .	.70	Class of 1941 . . . . .	.18
Class of 1935 . . . . .	.43	Class of 1942 . . . . .	.12
Class of 1936 . . . . .	.28	Class of 1943 . . . . .	.83

Table XXVIII

## URINALYSIS

	1942				1943			
	Men	Women			Men	Women	Total	
	%	%	No.	%	No.	%	No.	%
Acid . . . . .	35.54	56.12	2613	78.28	1060	78.4	3673	78.29
Alkaline . . . . .	4.93	21.28	680	20.36	216	15.97	896	19.1
Neutral . . . . .	9.53	9.16	46	1.37	60	4.43	106	2.25
Sugar . . . . .	.11	1.38	--	--	5	.37	--	.10
Albumin . . . . .	1.42	4.51	3	.089	13	.97	16	.34



Table XXIX

## GLYCOSURIA AND ALBUMINURIA OVER A PERIOD OF YEARS

	Sugar			Albumin	
	Men	Women		Men	Women
	<u>%</u>	<u>%</u>		<u>%</u>	<u>%</u>
Class of 1930 . . . . .	.19	.60	. . . . .	7.33	4.4
Class of 1931 . . . . .	.58	1.86	. . . . .	5.71	2.75
Class of 1932 . . . . .	.06	.48	. . . . .	3.6	2.1
Class of 1933 . . . . .	.09	.85	. . . . .	2.62	1.44
Class of 1934 . . . . .	.21	.79	. . . . .	5.65	2.97
Class of 1935 . . . . .	.22	1.29	. . . . .	5.40	4.2
Class of 1936 . . . . .	.52	1.19	. . . . .	6.7	2.87
Class of 1937 . . . . .	.52	--	. . . . .	4.97	1.15
Class of 1938 . . . . .	.86	2.13	. . . . .	4.59	3.66
Class of 1939 . . . . .	.42	.59	. . . . .	4.94	4.69
Class of 1940 . . . . .	.43	.78	. . . . .	6.06	2.47
Class of 1941 . . . . .	.13	4.81	. . . . .	3.74	6.24
Class of 1942 . . . . .	.11	1.38	. . . . .	1.42	4.51
Class of 1943 . . . . .	--	.37	. . . . .	.089	.97

Table XXX

## FOOT ABNORMALITIES

	1942				1943			
	Men	Women			Men	Woman		Total
	<u>%</u>	<u>%</u>	No.	<u>%</u>	No.	<u>%</u>	No.	<u>%</u>
Long Arches								
1st degree . .	9.92	27.21	302	9.04	318	22.7	620	13.21
2nd degree . .	5.49	10.94	213	6.37	186	13.68	399	8.5
3rd degree . .	1.62	2.70	43	1.28	59	4.36	102	2.17
Anterior arches	9.78	32.35	249	7.46	480	35.5	729	16.88
Abnormalities								
of feet . . .	.03	2.96	--	--	13	.96	13	.27





Table XXXI

## FOOT ABNORMALITIES OVER A PERIOD OF YEARS

	Long Arches						Anterior Arches Flat	
	1st Degree		2nd Degree		3rd Degree		Men	Women
	Men %	Women %	Men %	Women %	Men %	Women %		
Class of 1933...	9.99	17.3	7.74	17.17	1.33	5.94	15.23	42.17
Class of 1934...	19.5	11.68	9.73	9.3	2.03	1.51	22.31	28.41
Class of 1935...	15.9	19.2	9.5	8.7	1.08	1.6	19.6	35.9
Class of 1936...	18.3	36.4	9.5	10.	.99	2.18	28.3	29.
Class of 1937...	14.3	32.9	7.1	12.3	2.4	2.72	22.2	34.
Class of 1938...	15.82	25.21	6.98	7.84	2.36	1.68	18.98	20.49
Class of 1939...	11.92	32.16	5.52	7.03	2.46	1.98	14.47	7.47
Class of 1940...	7.84	27.83	2.26	9.95	1.08	2.08	10.29	39.01
Class of 1941...	10.48	25.39	5.40	12.76	1.39	4.60	10.28	34.89
Class of 1942...	9.92	27.21	5.49	10.94	1.62	2.70	9.78	2.96
Class of 1943...	9.04	23.52	6.38	13.76	1.29	4.36	7.46	35.50

Table XXXII

## SPINE ABNORMALITIES

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Kyphosis . . .	1.34	8.70	42	1.26	38	2.81	80	1.71
Lordosis . . .	1.34	9.68	41	1.23	24	1.78	65	1.39
Scoliosis . .	.81	4.35	27	.81	42	3.11	69	1.47

Table XXXIII

## NOSE ABNORMALITIES

	1942				1943			
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Spur . . . . .	3.54	.46	89	2.67	2	.15	91	1.94
Deviated Septum	9.92	11.40	269	8.06	140	10.36	409	8.71
Atrophied . . .	.14	.20	2	.06	--	--	2	.04
Hypertrophy . .	2.31	4.08	73	2.19	36	2.66	109	2.32



Table XXXIV

## THROAT ABNORMALITIES

	1942		1943					
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
TONSILS:								
Removed . . .	50.0	59.62	1622	48.58	629	46.52	2251	47.99
Tags . . . .	5.10	11.40	120	3.59	120	8.88	240	5.12
Pathological.	6.91	7.84	183	5.48	109	8.06	292	6.22

Table XXXV

## PERCENTAGE OF STUDENTS WITH TONSILS REMOVED OVER A PERIOD OF YEARS

	Men		Women			Men		Women
	%	%				%	%	
Class of 1930. . .	30.76	38.3		Class of 1937. . .	45.3	52.1		
Class of 1931. . .	35.77	42.42		Class of 1938. . .	52.19	57.19		
Class of 1932. . .	37.3	37.2		Class of 1939. . .	49.20	56.26		
Class of 1933. . .	42.48	45.56		Class of 1940. . .	46.59	57.54		
Class of 1934. . .	42.41	41.1		Class of 1941. . .	51.51	59.71		
Class of 1935. . .	45.4	52.2		Class of 1942. . .	50.	59.62		
Class of 1936. . .	44.	50.1		Class of 1943. . .	48.55	46.52		

Table XXXVI

## EARS

	1942		1943					
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Perforated . . .	.47	.66	16	.47	7	.52	23	.49
Cerumen . . . .	5.91	21.34	423	12.67	279	20.64	702	14.99
Hearing abnormal	.08	.66	29	.87	17	1.25	46	.98



Table XXXVII

## EYES

	1942		1943				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Abnormal								
Color vision . . .	.11	---	6	.18	--	--	6	.13
Refraction								
O.D. only . . .	11.64	7.11	181	5.42	88	6.5	269	5.73
O.S. only . . .	13.15	4.81	200	5.98	89	6.58	289	6.16
Both O.D. & O.S.	30.14	27.73	771	23.09	317	23.44	1088	21.06
Corrected								
with glasses . . .	8.02	15.68	341	10.21	190	14.05	531	11.32

Table XXXVIII

## POSTURE

	1942		1943				Total	
	Men	Women	Men		Women		Total	
	%	%	No.	%	No.	%	No.	%
Restricted								
flexibility. . .	.17	.92	2	.06	13	.96	15	.31
Excellent . . .	.22	1.52	1	.03	24	1.77	25	.53
Good. . . . .	93.68	84.65	2807	84.06	1210	89.49	4017	85.63
Fair. . . . .	5.01	13.57	504	15.09	111	8.21	615	13.11
Poor. . . . .	1.09	.26	27	.8	7	.51	34	.72

Table XXXIX

## INCIDENCE OF HISTORY OF VENEREAL DISEASE

	1942		1943		Total	
	Men	Women	Men	Women	Total	
	No.	%	No.	%	No.	%
Gonorrhea . . . . .	2	.06	--	--	2	.04
Syphilis . . . . .	--		1	.07	1	.02
Chancroid . . . . .	--		--	--	--	--



Table XL

## INCIDENCE OF VACCINATION SCARS

	1942		1943		Total	
	Men		Women			
	No.	%	No.	%	No.	%
Arm . . . . .	2966	88.82	790	58.43	3756	80.06
Leg . . . . .	4	.11	357	26.4	361	7.69
None . . . . .	369	11.05	205	15.15	574	12.23

Table XLI

## SKIN DISEASES

	1942		1943		Total	
	Men		Women			
	No.	%	No.	%	No.	%
Acne . . . . .	248	7.43	456	33.72	704	15.
Mycosis . . . .	419	12.54	124	9.17	543	11.57
Others . . . . .	19	.57	4	.29	23	.49





TWENTY-FOURTH ANNUAL REPORT

APPENDIX B



## APPENDIX B

Table I

## SUMMARY OF MEDICAL HISTORIES

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Total number examined .....	3339	1352	4691	5108
Total number re-examined....	3004	812	3816	2828
Inheritable diseases				
Apoplexy (family history).....	23	19	42	43
Cancer ( " " ).....	293	202	495	716
Goiter ( " " ).....	132	114	246	229
Mental disturbances				
(family history).....	37	11	48	44
Diabetes (family history).....	181	133	314	282
Epilepsy ( " " ).....	9	6	15	11
Kidney disease (family history).....	64	35	99	142
Tuberculosis (family history).....	169	93	262	257
Birthplace				
Illinois.....	2369	918	3287	3605
Elsewhere.....	970	434	1404	1503
Work for self-support				
during college.....	1862	276	2138	2275
Use laxatives frequently....	67	132	199	194
Sleep				
Under 6 hours.....	25	2	27	11
6-7 hours.....	355	154	509	582
8-9 hours.....	2742	1097	3839	4226
10 hours and over.....	217	99	316	289
Habits				
Coffee.....	1386	599	1985	2070
Tea.....	825	599	1424	1297
Tobacco.....	1143	312	1455	1196
None of the three.....	1121	223	1344	1796
Age started smoking				
Younger than 10 years.....	1	---	1	4
10-14 years.....	62	11	73	55
15-19 years.....	954	262	1216	1356
20-24 years.....	122	30	152	137
25 years and over.....	4	9	13	22
Meals per day				
One.....	---	---	---	1
Two.....	47	59	106	103
Three.....	3285	1290	4575	4980
More than three.....	7	3	10	24
Weight the past year				
Gained.....	1291	357	1648	1672
Lost.....	285	263	548	527
Stationary.....	1763	732	2495	2909



Table I--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Easily fatigued .....	136	208	344	332
Subject to frequent colds in				
Nose .....	382	281	663	714
Throat .....	88	119	207	242
Lungs .....	17	25	42	38
When reading, bothered with				
Headaches .....	121	161	282	288
Blurring of vision .....	92	89	181	175
Burning of eyes .....	109	106	215	236
Squinting of eyes .....	45	62	107	133
Watering of eyes .....	75	64	139	144
Twitching of eyes .....	38	41	79	101
Persistently worry .....	84	86	170	181
Have the "blues" .....	93	140	233	275
Injuries				
Head .....	142	23	165	208
Chest .....	80	7	87	161
Abdomen .....	16	---	16	19
Arm .....	466	97	563	556
Leg .....	323	63	386	325
Others .....	178	23	201	152
Operations				
Head				
tonsils .....	1791	829	2620	2593
adenoids .....	1136	93	1229	1085
others .....	93	44	137	188
Chest .....	11	4	15	19
Abdomen .....	306	158	464	495
Circumcision .....	279	---	279	238
Others .....	152	43	195	144
Arches of feet painful .....	69	70	139	133
Possible reasons for not				
taking Physical Education ..	63	96	159	236
Military Science .....	100	---	100	202
Diseases had				
Appendicitis .....	340	183	523	534
Asthma .....	67	24	91	88
Chickenpox .....	1944	983	2927	3181
Chorea .....	3	---	3	5
Constipation .....	38	100	138	122
Diabetes .....	3	7	10	8
Diphtheria .....	159	60	219	267
Discharging ear .....	133	100	233	216
Dysentery .....	16	12	28	36
Epilepsy .....	2	---	2	1
Heart trouble .....	58	32	90	141
Hay fever .....	229	110	339	309



Table I—Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Diseases had (Cont'd)				
Hernia .....	111	7	118	111
Infantile paralysis .....	23	8	31	68
Influenza .....	519	302	821	608
Kidney trouble .....	39	42	81	92
Malaria .....	86	28	114	117
Measles .....	2975	1177	4152	4194
German measles .....	501	490	991	1228
Meningitis .....	7	3	10	14
Mumps .....	1747	720	2467	2714
Nervous breakdown .....	7	13	20	31
Pleurisy .....	53	30	83	80
Pneumonia .....	320	139	459	506
Rheumatism .....	63	33	96	93
Scarlet fever .....	585	237	822	913
Sinusitis .....	131	82	213	206
Smallpox .....	100	36	136	156
Tonsillitis .....	660	334	994	882
Trachoma .....	2	4	6	2
Tuberculosis .....	10	3	13	12
Typhoid fever .....	31	13	44	48
Undulant fever .....	7	2	9	9
Whooping cough .....	1627	865	2492	2733
Others .....	304	22	326	183
Immunizations				
Diphtheria .....	1326	527	1853	1682
Scarlet fever .....	544	214	758	762
Smallpox .....	2647	1156	3803	4139
Typhoid fever .....	657	191	848	938
Tests				
Schick .....	779	375	1154	969
Dick .....	332	161	493	405

Table II

## SUMMARY OF PHYSICAL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Color of hair				
Flaxen .....	179	173	352	502
Reddish .....	83	56	139	168
Light Brown .....	913	380	1293	1329
Dark Brown .....	446	272	718	872
Brown .....	1322	377	1699	1628
Black .....	396	93	489	609
Gray .....	—	1	1	—





Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Color of eyes				
Black .....	19	40	59	---
Blue .....	1610	511	2121	310
Gray .....	135	117	252	407
Greenish .....	244	127	371	581
Hazel .....	182	117	299	1719
Brown .....	1149	440	1589	52
Vision abnormal without glasses				
Both eyes .....	771	317	1088	1503
Right eye (O. D.) .....	181	88	269	526
Left eye (O. S.) .....	200	89	289	545
Corrected with glasses .....	341	190	531	526
Color vision abnormal .....	6	---	6	4
Ears				
Right ear				
Cerumen .....	212	155	367	277
Perforated drum .....	7	5	12	14
Hearing abnormal .....	14	9	23	8
Left ear				
Cerumen .....	211	124	335	259
Perforated drum .....	9	2	11	13
Hearing abnormal .....	15	8	23	5
Nose				
Spur .....	89	2	91	134
Deviation .....	269	140	409	529
Chronic hypertrophy .....	73	36	109	145
Atrophy .....	2	---	2	8
Tonsils				
Removed .....	1622	629	2251	2700
Tags .....	120	120	240	356
Pathological .....	183	109	292	367
Teeth				
No cavities or absent .....	1444	820	2264	2528
Cavities .....	546	166	712	799
Absent .....	1493	344	1837	1964
Need cleaning .....	379	57	436	536
Devitalized .....	71	24	95	167
Gums diseased .....	10	15	25	71



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
<b>Weight</b>				
Below 100 pounds .....	*	86		
100-115 incl. ....		496		
116-130 .....		386		
131-145 .....		243		
146-160 .....		88		
161-175 .....		27		
176-190 .....		14		
191-over .....		12		
<b>Height</b>				
below 50 inches .....	*	—		
50-59 incl. ....		29		
60-62 .....		327		
63-65 .....		652		
66-68 .....		307		
69-71 .....		36		
72-over .....		1		
<b>Skin</b>				
Acne .....	248	456	704	1143
Mycosis .....	419	124	543	759
Other skin diseases .....	19	4	23	47
<b>Vaccination scar</b>				
Arm .....	2966	790	3756	4126
Leg .....	4	357	361	540
None .....	369	205	574	442
<b>General development</b>				
Excellent .....	16	26	42	29
Good .....	2825	1283	4108	4820
Fair .....	482	42	524	252
Poor .....	16	1	17	7
<b>Build</b>				
Stocky .....	219	149	368	470
Medium .....	2299	662	2961	3279
Slender .....	821	541	1362	1359
<b>Chest</b>				
Flat .....	302	55	357	197
Funnel .....	25	6	31	84
Pigeon .....	10	15	25	27
<b>Vertebral Column</b>				
Kyphosis .....	42	38	80	260
Lordosis .....	41	24	65	340
Scoliosis .....	27	42	69	166



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Posture				
Excellent .....	1	24	25	31
Good .....	2807	1210	4017	4648
Fair .....	504	111	615	386
Poor .....	27	7	34	43
Restricted flexibility .....	2	13	15	20
Lymph nodes				
Axillary .....	48	2	50	169
Cervical .....	126	64	190	477
Epitrochlear .....	22	1	23	114
Inguinal .....	502	16	518	700
Thyroid				
Enlarged				
Slight .....	25	142	167	210
Moderate .....	1	20	21	22
Marked .....	1	1	2	
Evidence of toxicity .....	1	3	4	5
Lungs, abnormal .....	12	9	21	13
Heart				
Abnormal .....	28	3	31	69
Irregular pulse .....	6	---	6	15
Abdomen, abnormal .....	3	6	9	16
Reflexes				
Patellar .....	9	38	47	63
Romberg .....	---	2	2	17
Pupillary .....	1	4	5	70
Penis, circumcised .....	1205	---	1205	1122
Testes, abnormal .....	30	---	30	13
Hernia, present .....	29	5	34	34
Hemorrhoids, present .....	19	11	30	18
Varicocele, present .....	58		58	126
Flat feet				
Long arches				
first degree .....	302	318	620	769
second degree .....	213	186	399	363
third degree .....	43	59	102	99
Anterior arches flat .....	249	480	729	843
Abnormalities .....	---	13	13	46
Had venereal disease				
Gonorrhea .....	2	---	2	3
Syphilis .....	---	1	1	1
Chancroid .....	---	---	---	---
Physical defects				
Amputations .....	2	1	3	7
Atrophies .....	13	5	18	11
Unusual scars .....	159	97	256	234
Deformities .....	13	18	31	40



Table II--Continued

	<u>Men</u>	<u>Women</u>	<u>Class of '43</u> <u>Total</u>	<u>Class of '42</u> <u>Total</u>
Urine .....				
Acid .....	2613	1060	3673	3913
Alkaline .....	680	216	896	500
Neutral .....	46	60	106	481
Albumin				
Persistent .....	3	13	16	21
Transitory .....	91	52	143	98
Sugar				
Persistent .....	---	5	5	2
Transitory .....	5	30	35	23
Menses				
Regular .....		1113	1113	1241
Irregular .....		239	239	277
Pain				
Severe .....		213	213	251
Slight .....		587	587	530





SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT

				<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Grand Total</u>			
Underheight and underweight (under 64" and 120 lbs.) .....				15	1	6	22			
Underheight (under 64"; 120 lbs. or over) .....				10	7	7	24			
<u>Height</u>	<u>Weight</u>	<u>Chest at</u> <u>Expiration</u>	<u>Satisfactory</u>				<u>Underdev. Chest</u>			
			<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>	<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64 ...	120 ...	30 .....	25	14	4	43	---	---	---	---
65 ...	121 ...	30 .....	53	28	16	97	---	3	---	3
66 ...	122 ...	30 $\frac{1}{4}$ .....	118	63	34	215	2	---	1	3
67 ...	124 ...	30 $\frac{1}{2}$ .....	197	80	45	322	4	---	1	5
68 ...	126 ...	30 3/4 .	259	123	64	446	5	2	1	8
69 ...	128 ...	31 .....	267	131	78	476	8	5	1	14
70 ...	130 ...	31 $\frac{1}{4}$ .....	267	85	64	416	9	10	1	20
71 ...	133 ...	31 3/4 .	211	80	51	342	16	3	3	22
72 ...	138 ...	32 $\frac{1}{4}$ .....	135	54	32	221	25	2	4	31
73 ...	143 ...	32 3/4 .	63	31	22	116	4	3	2	9
74 ...	148 ...	33 $\frac{1}{2}$ .....	34	14	11	59	6	1	1	8
75 ...	155 ...	34 $\frac{1}{4}$ .....	15	4	3	22	3	---	2	5
76 ...	161 ...	34 3/4 .	7	---	1	8	1	---	1	2
77 ...	168 ...	35 $\frac{1}{4}$ .....	3	---	---	3	1	---	---	1
78 ...	175 ...	35 3/4 .	---	1	---	1	---	---	---	---
Totals			1654	708	425	2787	84	29	18	131



TWENTY-FOURTH ANNUAL REPORT

APPENDIX C



SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT  
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at Expiration</u>	<u>Underweight</u>				<u>Underdev. Chest and Underweight</u>			
			<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>	<u>Urban</u>	<u>Rural</u>	<u>Out-S</u>	<u>Total</u>
64 ...	120 ...	30 .....	5	1	3	9	3	-	-	3
65 ...	121 ...	30 .....	14	2	3	19	4	-	1	5
66 ...	122 ...	30 $\frac{1}{4}$ .....	17	12	3	32	12	-	1	13
67 ...	124 ...	30 $\frac{1}{2}$ .....	20	4	7	31	18	3	5	26
68 ...	126 ...	30 $\frac{3}{4}$ .	22	4	8	34	9	4	2	15
69 ...	128 ...	31 .....	13	9	3	25	10	7	6	23
70 ...	130 ...	31 $\frac{1}{4}$ .....	8	3	-	11	16	-	5	21
71 ...	133 ...	31 $\frac{3}{4}$ .	5	3	1	9	14	8	5	27
72 ...	138 ...	32 $\frac{1}{4}$ .....	1	3	1	5	12	3	3	18
73 ...	143 ...	32 $\frac{3}{4}$ .	3	-	1	4	5	1	1	7
74 ...	148 ...	33 $\frac{1}{2}$ .....	1	-	3	4	8	4	3	15
75 ...	155 ...	34 $\frac{1}{4}$ .....	-	-	-	-	4	-	-	4
76 ...	161 ...	34 $\frac{3}{4}$ .	-	1	-	1	7	1	1	9
77 ...	168 ...	35 $\frac{1}{4}$ .....	-	-	-	-	1	-	-	1
78 ...	175 ...	35 $\frac{3}{4}$ .	-	-	-	-	-	1	-	1
79 ...	...	...	-	1	-	1	-	1	-	1
Totals			109	43	33	185	123	33	33	189



SUBNORMAL DEVELOPMENT OF MEN STUDENTS  
AS DETERMINED BY MINIMUM STANDARDS  
OF THE WAR DEPARTMENT  
(cont'd)

<u>Height</u>	<u>Weight</u>	<u>Chest at</u> <u>Expiration</u>	<u>Urban</u>	<u>Grand Totals</u>		<u>Total</u>
				<u>Rural</u>	<u>Out-S</u>	
64 ...	120 .....	30 .....	8	1	3	12
65 ...	121 .....	30 .....	18	2	4	24
66 ...	122 .....	30 $\frac{1}{4}$ .....	29	12	4	45
67 ...	124 .....	30 $\frac{1}{2}$ .....	38	7	12	57
68 ...	126 .....	30 $\frac{3}{4}$ .....	31	8	10	49
69 ...	128 .....	31 .....	23	16	9	48
70 ...	130 .....	31 $\frac{1}{4}$ .....	24	3	5	32
71 ...	133 .....	31 $\frac{3}{4}$ .....	19	11	6	36
72 ...	138 .....	32 $\frac{1}{4}$ .....	13	6	4	23
73 ...	143 .....	32 $\frac{3}{4}$ .....	8	1	2	11
74 ...	148 .....	33 $\frac{1}{2}$ .....	9	4	6	19
75 ...	155 .....	34 $\frac{1}{4}$ .....	4	-	-	4
76 ...	161 .....	34 $\frac{3}{4}$ .....	7	2	1	10
77 ...	168 .....	35 $\frac{1}{4}$ .....	1	-	-	1
78 ...	175 .....	35 $\frac{3}{4}$ .....	-	1	-	1
79 ...	.....	.....	-	2	-	2
Totals .....			232	76	66	374





## APPENDIX C

## CIVIL SERVICE EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined . . . . .	187	9	196
Married . . . . .	140	4	144
Widower, widow . . . . .	3	3	6
Single . . . . .	44	2	46
Age			
Under 20 . . . . .	10	-	10
20-29 years . . . . .	67	3	70
30-39 years . . . . .	44	2	46
40-49 years . . . . .	35	-	35
50 years and over . . . . .	31	4	35
Inheritable diseases			
Tuberculosis . . . . .	10	1	11
Cancer . . . . .	14	-	14
Neurasthenia . . . . .	-	-	-
Epilepsy . . . . .	2	-	2
Others . . . . .	1	1	2
Birthplace			
Illinois . . . . .	144	5	149
Elsewhere . . . . .	43	4	47
Injuries			
Head . . . . .	6	-	6
Chest . . . . .	8	-	8
Abdomen . . . . .	1	-	1
Arm . . . . .	31	-	31
Leg . . . . .	17	-	17
Others . . . . .	3	-	3
Operations			
Head			
Tonsils . . . . .	31	2	33
Adenoids . . . . .	19	-	19
Others . . . . .	11	-	11
Chest . . . . .	-	1	1
Abdomen . . . . .	21	1	22
Circumcision . . . . .	3	-	3
Others . . . . .	8	-	8
Vaccinations			
Typhoid Fever . . . . .	33	3	36
Smallpox . . . . .	158	8	166
Age of vaccination scar			
Under 10 years . . . . .	74	1	75
10-20 years . . . . .	43	5	48
Over 20 years . . . . .	41	2	43
Sleep			
Under 6 hours . . . . .	-	-	-
6-7 hours . . . . .	20	2	22
8-9 hours . . . . .	158	6	164
10 hours and over . . . . .	9	1	10



	<u>Men</u>	<u>Women</u>	<u>Total</u>
<b>Habits</b>			
Tea .....	33	4	37
Coffee .....	151	6	157
Tobacco .....	142	-	142
Alcohol .....	20	-	20
Drugs .....	---	-	---
None of the above .....	12	2	14
<b>Diseases Had</b>			
Measles .....	153	8	161
Rubella .....	5	2	7
Mumps .....	124	7	131
Chickenpox .....	78	6	84
Whooping cough .....	86	5	91
Scarlet fever .....	27	3	30
Typhoid fever .....	11	1	12
Diphtheria .....	6	2	8
Meningitis .....	---	-	---
Malaria .....	8	-	8
Smallpox .....	16	1	17
Pneumonia .....	14	3	17
Asthma .....	2	-	2
Pleurisy .....	3	1	4
Rheumatism .....	6	-	6
Tonsillitis .....	19	1	20
Chorea .....	---	-	---
Influenza .....	46	2	48
Otitis media .....	---	-	---
Gonorrhea .....	8	-	8
Syphilis .....	---	-	---
Chancroid .....	1	-	1
Constipation .....	2	1	3
Dysentery .....	---	-	---
Appendicitis .....	17	-	17
Neurasthenia .....	---	-	---
Poliomyelitis .....	---	-	---
Tuberculosis .....	1	-	1
Glasses .....	19	5	24
Others .....	4	-	4

## SUMMARY OF PHYSICAL EXAMINATIONS

<b>Color of hair</b>			
Flaxen .....	10	-	10
Reddish .....	6	1	7
Light brown .....	63	-	63
Dark brown .....	26	1	27
Brown .....	59	5	64
Black .....	9	-	9
Gray .....	14	2	16



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Color of eyes			
Blue .....	107	2	109
Gray .....	22	2	24
Greenish .....	5	1	6
Hazel .....	10	1	11
Brown .....	43	3	46
Black .....	---	---	---
Vision abnormal without glasses			
Both eyes .....	33	1	34
Right eye (O.D.) .....	9	2	11
Left eye (O.S.) .....	7	4	11
Corrected with glasses .....	10	1	11
Colorblind .....	1	---	1
Manifest Astigmatism .....	---	---	---
Ears			
Right ear			
Cerumen .....	9	---	9
Perforated drum .....	---	---	---
Hearing abnormal .....	---	2	2
Left ear			
Cerumen .....	9	---	9
Perforated drum .....	---	---	---
Hearing abnormal .....	---	1	1
Nose			
Spur .....	2	---	2
Deviation .....	18	3	21
Chronic hypertrophy .....	3	1	4
Atrophy .....	1	---	1
Tonsils			
Removed .....	41	3	44
Tags .....	2	---	2
Pathological .....	8	---	8
Teeth			
No cavities or absent .....	46	---	46
Cavities .....	49	3	52
Absent .....	129	5	134
Need cleaning .....	82	---	82
Devitalized .....	14	1	15
Gums diseased .....	33	---	33
Skin			
Acne .....	2	2	4
Mycosis .....	7	---	7
Other skin diseases .....	1	---	1
Vaccination scar			
Arm .....	159	8	167
Leg .....	---	---	---
None .....	28	1	29
General Development			
Excellent .....	2	---	2
Good .....	166	8	174
Fair .....	19	1	20
Poor .....	---	---	---



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Build .....			
Stocky .....	33	2	35
Medium .....	118	6	124
Slender .....	36	1	37
Chest			
Flat .....	10	—	10
Funnel .....	3	—	3
Pigeon .....	—	1	1
Vertebral column			
Kyphosis .....	7	—	7
Lordosis .....	5	—	5
Scoliosis .....	—	—	—
Posture			
Excellent .....	1	—	1
Good .....	155	8	163
Fair .....	28	1	29
Poor .....	3	—	3
Restricted flexibility .....	—	2	2
Lymph nodes			
Axillary .....	5	—	5
Cervical .....	6	1	7
Epitrochlear .....	1	—	1
Inguinal .....	30	—	30
Thyroid			
Enlarged			
Slight .....	3	1	4
Moderate .....	—	—	—
Marked .....	—	—	—
Evidence of toxicity .....	—	1	1
Lungs, abnormal .....	2	—	2
Heart, abnormal .....	5	—	5
Irregular Pulse .....	1	—	1
Abdomen, abnormal .....	3	—	3
Reflexes			
Patellar .....	4	—	4
Romberg .....	2	—	2
Pupillary .....	3	—	3
Penis, circumcised .....	30	—	30
Testes, abnormal .....	7	—	7
Hernia, present .....	9	1	10
Varicocele, present .....	7	—	7
Hemorrhoids, present .....	2	—	2
Flat feet			
Long arches			
First degree .....	17	3	20
Second degree .....	11	2	13
Third degree .....	—	—	—
Anterior arches flat .....	12	3	15
Abnormalities .....	1	—	1
Had venereal disease			
Gonorrhea .....	13	—	13
Syphilis .....	2	—	2
Chancroid .....	—	—	—





	<u>Men</u>	<u>Women</u>	<u>Total</u>
Physical defects			
Amputations .....	3	-	3
Atrophies .....	—	-	—
Unusual scars .....	11	1	12
Deformities .....	6	-	6
Urine			
Acid .....	166	5	171
Alkaline .....	21	3	24
Neutral .....	—	-	—
Albumin			
Persistent .....	—	-	—
Transitory .....	—	-	—
Unclassified .....	4	-	4
Sugar			
Persistent .....	1	-	1
Transitory .....	1	-	1
Unclassified .....	—	-	—
Weight			
Below 100 lbs. ....	—	-	—
100-115 incl. ....	3	2	5
116-130 .....	19	3	22
131-145 .....	51	1	52
146-160 .....	49	1	50
161-175 .....	38	1	39
176-190 .....	15	1	16
191 and over .....	12	4	12
Height			
Below 50 inches ....	—	2	2
50-59 .....	—	-	—
60-62 .....	—	1	1
63-65 .....	24	4	28
66-68 .....	79	1	80
68-70 .....	—	1	1
69-71 .....	67	-	67
72 and over .....	17	-	17



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APPENDIX D



## UNIVERSITY HIGH SCHOOL EXAMINATIONS

	<u>Men</u>	<u>Women</u>	<u>Total</u>
Total number examined .....	52	36	88
Total number reexamined .....			
Inheritable diseases			
Apoplexy .....	—	2	2
Cancer .....	11	8	19
Goiter.....	4	1	5
Mental disturbances .....	—	—	—
Diabetes .....	3	7	10
Epilepsy .....	—	—	—
Kidney disease .....	2	2	4
Tuberculosis .....	—	3	3
Birthplace			
Illinois .....	36	26	62
Elsewhere .....	16	10	26
Work for self-support .....	3	—	3
Use laxatives frequently .....	—	4	4
Sleep			
Under 6 hours .....	—	—	—
6-7 hours .....	1	—	1
8-9 hours .....	30	22	52
10 hours and over .....	21	14	35
Habits			
Coffee .....	3	5	8
Tea .....	5	4	9
Tobacco .....	6	—	6
None of the three .....	37	19	56
Age started smoking			
Younger than 10 years .....	1	—	1
10-14 years .....	—	—	—
15-19 years .....	5	—	5
Meals per day			
One .....	—	—	—
Two .....	—	—	—
Three .....	52	36	88
More than three .....	—	—	—
Weight the past year			
Gained .....	42	26	68
Lost .....	1	5	6
Stationary .....	9	5	14
Easily fatigued .....	—	4	4
Menses			
Regular .....	—	11	11
Irregular .....	—	10	10
Pain			
Severe .....	—	—	—
Slight .....	—	5	5
Menses not started .....	—	15	15



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Subject to frequent colds in			
Nose .....	14	9	23
Throat .....	2	3	5
Lungs .....	1	--	1
Injuries			
Head .....	1	--	1
Chest .....	2	--	2
Abdomen .....	--	--	--
Arm .....	8	5	13
Leg .....	4	--	4
Others .....	2	--	2
Operations			
Head			
Tonsils .....	32	29	61
Adenoids .....	19	4	23
Others .....	3	2	5
Chest .....	--	--	--
Abdomen .....	3	--	3
Circumcision .....	6	--	6
Others .....	4	--	4
Immunizations			
Diphtheria .....	28	20	48
Scarlet fever .....	14	8	22
Smallpox .....	49	36	85
Typhoid fever .....	10	7	17
Tests			
Schick .....	13	15	28
Dick .....	11	15	26
Persistently worry .....	1	4	5
Have the "blues" .....	2	1	3
Arches of feet painful .....	1	2	3
Possible reasons for not taking			
Physical Education .....	--	--	--
When reading, bothered with			
Headaches .....	2	2	4
Blurring of vision .....	2	3	5
Burning of eyes .....	3	1	4
Squinting of eyes .....	2	2	4
Watering of eyes .....	1	1	2
Twitching of eyes .....	--	--	--
Diseases had			
Appendicitis .....	3	2	5
Asthma .....	3	--	3
Chickenpox .....	36	31	67
Chorea .....	--	--	--
Constipation .....	2	3	5
Diabetes .....	--	2	2
Diphtheria .....	1	--	1

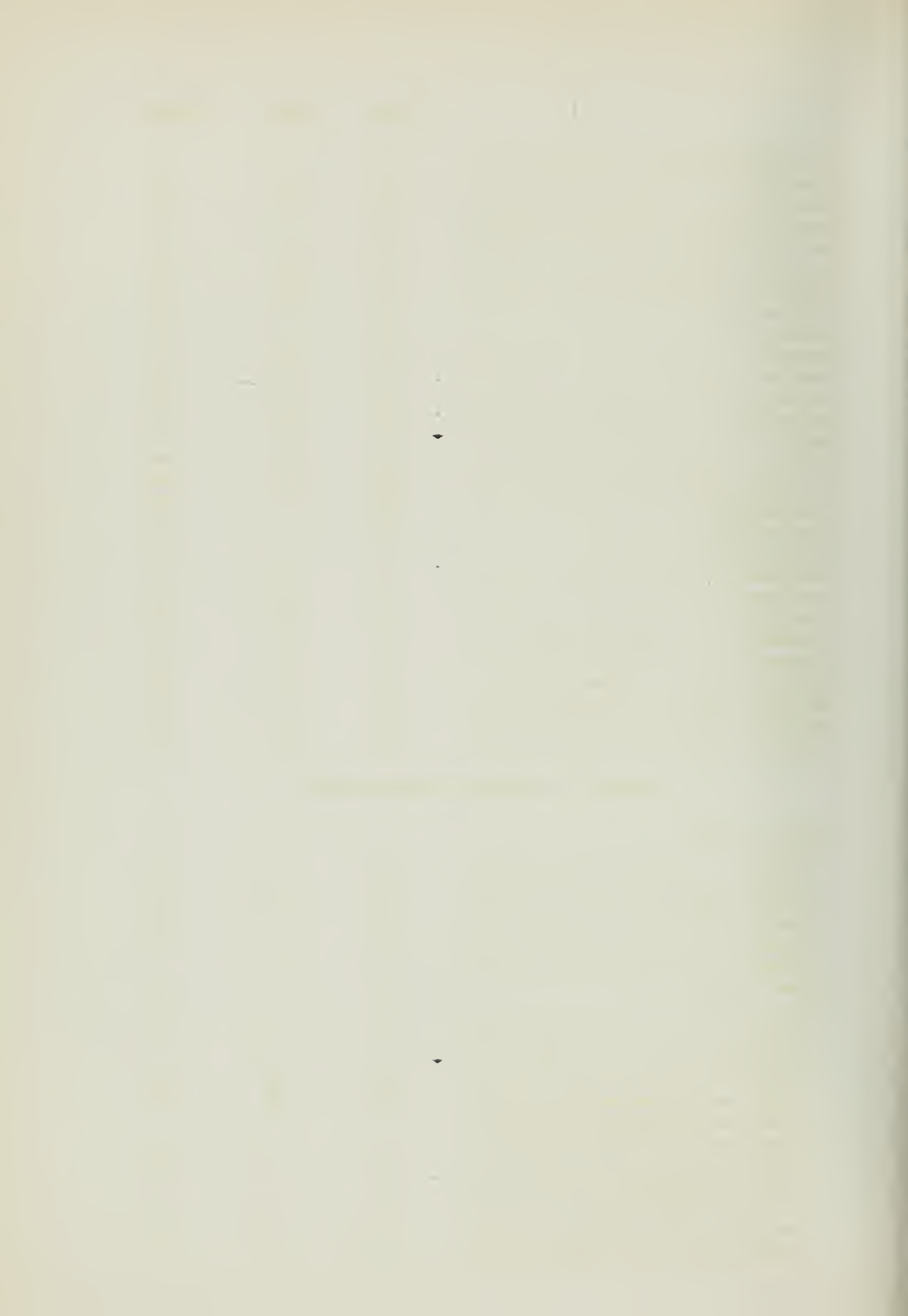




	<u>Men</u>	<u>Women</u>	<u>Total</u>
Discharging ear .....	---	1	1
Dysentery .....	---	---	---
Epilepsy .....	---	---	---
Heart trouble .....	1	2	3
Hay fever .....	2	---	2
Hernia (rupture) .....	---	---	---
Infantile paralysis .....	1	---	1
Influenza .....	8	11	19
Kidney trouble .....	1	3	4
Malaria .....	---	---	---
Measles .....	45	36	81
German measles .....	8	19	27
Meningitis .....	---	---	---
Mumps .....	22	23	45
Nervous breakdown .....	---	---	---
Pleurisy .....	---	---	---
Pneumonia .....	12	5	17
Rheumatism .....	---	---	---
Scarlet fever .....	6	7	13
Sinusitis .....	1	2	3
Smallpox .....	1	---	1
Tonsillitis .....	8	11	19
Trachoma .....	---	---	---
Tuberculosis .....	1	---	1
Typhoid fever .....	---	---	---
Undulant fever .....	---	---	---
Whooping cough .....	26	29	55
Others .....	---	---	---

## SUMMARY OF PHYSICAL EXAMINATIONS

Color of hair			
Flaxen .....	5	5	10
Reddish .....	1	3	4
Light brown .....	25	11	36
Dark brown .....	5	10	15
Brown .....	10	7	17
Black .....	6	---	6
Color of eyes			
Blue .....	32	7	39
Gray .....	2	3	5
Greenish .....	1	5	6
Hazel .....	3	6	9
Brown .....	13	15	28
Black .....	1	---	1
Vision abnormal without glasses			
Both eyes .....	8	4	12
Right eye (O.D.) .....	5	2	7
Left eye (O.S.) .....	1	1	2
Corrected with glasses .....	3	1	4
Colorblind .....	---	---	---



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Ears			
Right ear			
Cerumen .....	4	2	6
Perforated drum .....	---	---	---
Hearing abnormal .....	---	1	1
Left ear			
Cerumen .....	4	2	6
Perforated drum .....	---	---	---
Hearing abnormal .....	---	1	1
Nose			
Spur .....	---	---	---
Deviation .....	2	1	3
Chronic hypertrophy .....	1	1	2
Atrophy .....	---	---	---
Tonsils			
Removed .....	28	29	57
Tags .....	---	2	2
Pathological .....	2	3	5
Teeth			
No cavities or absent .....	26	18	44
Cavities .....	3	3	6
Need cleaning .....	2	3	5
Devitalized .....	---	---	---
Absent .....	22	14	36
Skin			
Acne .....	3	8	11
Mycosis .....	5	3	8
Other skin diseases .....	1	---	1
Vaccination scar			
Arm .....	47	20	67
Leg .....	---	11	11
None .....	5	5	10
General Development			
Excellent .....	---	1	1
Good .....	44	35	79
Fair .....	8	---	8
Poor .....	---	---	---
Build			
Stocky .....	6	5	11
Medium .....	30	10	40
Slender .....	16	21	37
Chest			
Flat .....	2	1	3
Funnel .....	---	---	---
Pigeon .....	---	---	---
Vertebral column			
Kyphosis .....	---	1	1
Lordosis .....	1	---	1
Scoliosis .....	---	---	---



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Posture			
Excellent .....	—	3	3
Good .....	45	30	75
Fair .....	6	3	9
Poor .....	1	—	1
Restricted flexibility .....	—	1	1
Lymph nodes			
Axillary .....	1	—	1
Cervical .....	4	—	4
Epitrochlear .....	—	—	—
Inguinal .....	5	—	5
Thyroid			
Enlarged			
Slight .....	—	2	2
Moderate .....	—	—	—
Marked .....	—	—	—
Evidence of toxicity .....	—	—	—
Lungs, abnormal .....	—	—	—
Heart, abnormal .....	—	1	1
Irregular pulse .....	—	—	—
Reflexes			
Patellar .....	—	2	2
Romberg .....	—	—	—
Pupillary .....	—	—	—
Penis, circumcised .....	23	—	23
Testes, abnormal .....	1	—	1
Varicocele, present .....	2	—	2
Hernia, present .....	1	—	1
Hemorrhoids, present .....	—	—	—
Flat feet			
Long Arches			
First degree .....	3	11	14
Second degree .....	4	2	6
Third degree .....	—	—	—
Anterior arches flat .....	6	4	10
Abnormalities .....	—	—	—
Had venereal disease			
Gonorrhea .....	—	—	—
Syphilis .....	—	—	—
Chancroid .....	—	—	—
Obvious defects			
Amputations .....	—	—	—
Atrophies .....	—	—	—
Unusual scars .....	3	3	6
Deformities .....	—	1	1



	<u>Men</u>	<u>Women</u>	<u>Total</u>
Urine			
Acid .....	42	30	72
Alkaline .....	8	5	13
Neutral .....	2	1	3
Albumin .....			
Persistent .....	---	2	2
Transitory .....	2	1	3
Unclassified .....	---	---	---
Sugar			
Persistent .....	---	---	---
Transitory .....	---	---	---
Unclassified .....	---	---	---
Weight			
Below 100 lbs. ....	14	13	27
100-115 incl. ....	13	13	26
116-130 .....	14	6	20
131-145 .....	8	4	12
146-160 .....	2	---	2
161-175 .....	---	---	---
176-190 .....	1	---	1
Height			
Below 50 inches ....	---	---	---
50-59 .....	5	7	12
60-62 .....	16	10	26
63-65 .....	10	13	23
66-68 .....	15	4	19
69-71 .....	6	2	8
72 and over .....	---	---	---





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APPENDIX E



## CASES ENCOUNTERED DURING THE YEAR

Abdominal pain .....	..	53
Abscess		
Alveolar (gumboil) .....	10	
Tonsillar .....	3	
Unclassified .....	<u>9</u>	22
Acne .....	..	167
Adenitis		
Cervical .....	15	
Inguinal .....	3	
Unclassified .....	<u>69</u>	87
Adenoids .....	..	..
Adhesions .....	..	2
Albuminuria		
Accidental .....	35	
Unclassified .....	<u>6</u>	41
Allergy .....	..	32
Amenorrhea .....	..	9
Anemia .....	..	5
Angina, Pectoris .....	1	
Vincent's .....	<u>54</u>	55
Ankylosis .....	..	2
Appendicitis		
Acute .....	8	
Chronic .....	24	
Unclassified .....	<u>56</u>	88
Arthritis .....	..	34
Asthma .....	..	29
Atrophy .....	..	7
Autointoxication .....	..	4
Anorexia .....	..	3
Balanitis .....	..	6
Bites		
Animal .....	11	
Insect stings .....	27	
Unclassified .....	<u>1</u>	39
Blepharitis .....	..	27
Bromidrosis .....	..	6
Bronchitis		
Acute .....	28	
Chronic .....	3	
Unclassified .....	<u>343</u>	374
Bunion .....	..	6
Bursitis .....	..	37
Burning eyes .....	..	1
Callosity .....	..	49
Calculus .....	..	1
Cancrum, oris .....	..	30
Carbuncle .....	..	1



Caries		
Dental .....	..	20
Catarrh .....	..	5
Cellulitis .....	..	18
Ceruminosis .....	..	416
Chalazion .....	..	1
Chapped lips .....	..	1
Charley horse .....	..	2
Chickenpox .....	..	2
Chiggers .....	..	5
Chilblain .....	..	2
Clavus .....	..	51
Colitis .....	..	35
Color blindness .....	..	2
Comedo .....	..	4
Conjunctivitis		
Acute .....	15	
Unclassified .....	<u>154</u>	169
Constipation .....	..	58
Coryza .....	..	866
Cough .....	..	8
Cramp .....	..	1
Cyst		
Sebaceous .....	31	
Unclassified .....	<u>67</u>	98
Condyloma .....	..	1
Cystitis .....	..	23
Dandruff .....	..	11
Deafness .....	..	8
Dermatitis		
Exfoliativa .....	2	
Venenata .....	6	
Vesicular .....	1	
Unclassified .....	<u>184</u>	193
Deviation, nasal septum .....	..	37
Diabetes .....	..	2
Diarrhea .....	..	27
Dry skin .....	..	1
Dysentery .....	..	4
Dysmenorrhea .....	..	84
Ecchymosis .....	..	2
Eczema .....	..	34
Edema .....	..	24
Enteritis .....	..	41
Epidermitis .....	..	6
Epidermophytosis .....	..	1
Epistaxis .....	..	52
Erysipelas .....	..	1



Erythema .....	..	5
Exostosis .....	..	2
Fainting (syncope) .....	..	5
Fatigue .....	..	86
Fissure		
Anus .....	7	
Unclassified .....	<u>12</u>	19
Fistula .....	..	2
Fibroma .....	..	1
Flat foot (pes planus) .....	..	69
Flatulence (intestinal gas) ..	..	2
Folliculitis .....	..	4
Frostbite .....	..	21
Furunculosis .....	..	334
Ganglion .....	..	17
Gastritis .....	..	54
Gastroenteritis .....	..	69
Gingivitis .....	..	63
Glossitis .....	..	2
Glycosuria .....	..	2
Goiter .....	..	1
Granulated eye .....	..	2
Halitosis .....	..	1
Hay fever .....	..	58
Headache (cephalalgia) .....	..	79
Heart trouble .....	..	12
Heat rash .....	..	1
Heat stroke .....	..	3
Hematoma .....	..	5
Hematuria .....	..	1
Hemoptysis .....	..	2
Hemorrhage .....	..	7
Hemorrhoids .....	..	51
Hernia		
Femoral .....	1	
Inguinal .....	7	
Unclassified .....	<u>39</u>	47
Herpes		
Liabilis .....	24	
Simplex .....	20	
Zoster .....	17	
Zoster Ophthalmos .....	1	
Unclassified .....	<u>20</u>	82
Hiccough .....	..	5
Hordeolum .....	..	100
Hydrocele .....	..	8
Hyperacidity .....	..	6
Hyperopia .....	..	2
Hypertension .....	..	3
Hypertrophy, unclassified ....	..	2





Hypothyroidism .....	..	7
Hysteria .....	..	2
Impacted molar .....	..	1
Ichthyosis .....	..	1
Impetigo		
Contagiosa .....	7	
Unclassified .....	<u>111</u>	118
Indigestion .....	..	54
Inflammation .....	..	6
Influenza .....	..	47
Ingrown nail .....	..	50
Insomnia .....	..	28
Intestinal toxemia .....	..	1
Iritis .....	..	2
Irritation		
Skin .....	13	
Unclassified .....	<u>22</u>	35
Jaundice .....	..	3
Lagrippe .....	..	180
Laryngitis .....	..	78
Lordosis .....	..	2
Lumbago .....	..	33
Malaise .....	..	2
Malaria .....	..	2
Mastitis .....	..	2
Menorrhagia .....	..	6
Metatarsalgia .....	..	30
Migraine .....	..	13
Miliaria .....	..	1
Molluscum .....	..	1
Mucocele .....	..	2
Mumps .....	..	16
Myalgia .....	..	17
Mycosis .....	..	908
Myopia .....	..	5
Myositis .....	..	150
Nausea .....	..	9
Nasal obstruction .....	..	1
Nervousness .....	..	15
Nephritis .....	..	1
Neuralgia		
Face .....	1	
Intercostal .....	3	
Unclassified .....	<u>12</u>	16
Neurasthenia .....	..	8
Neuritis .....	..	51
Neurosis .....	..	6
Nevus .....	..	5
Nocturnal emissions .....	..	4
Nostalgia .....	..	1



Obesity .....	..	2
Obstruction, eustachian tubes .	..	1
Orchitis .....	..	2
Osteoma .....	..	1
Osteomyelitis .....	..	1
Otalgia .....	..	20
Otitis		
Externa .....	9	
Interna .....	2	
Media .....	<u>85</u>	96
Overweight .....	..	33
Painful		
Arch .....	17	
Knee .....	2	
Miscellaneous .....	<u>67</u>	86
Palpitation .....	..	2
Papilloma .....	..	2
Paralysis		
Facial .....	1	
Unclassified .....	<u>1</u>	2
Paronychia .....	..	39
Pediculosis		
Pubis .....	17	
Unclassified .....	<u>2</u>	19
Periostitis .....	..	5
Pharyngitis		
Acute .....	209	
Naso .....	127	
Unclassified .....	<u>1520</u>	1856
Phimosis .....	..	8
Pityriasis .....	..	24
Pleurisy .....	..	57
Poisoning .....	.	
Ivy .....	8	
Unclassified .....	<u>4</u>	12
Polyuria .....	..	1
Poor posture .....	..	1
Pruritis .....	..	8
Psoriasis .....	..	1
Psychosis .....	..	2
Pustule .....	..	78
Pyelosephritis .....	..	1
Pyelitis .....	..	3
Pyorrhea .....	..	1
Quinsy .....	..	3
Rales .....	..	9
Rheumatic fever .....	..	1
Rheumatism .....	..	11



Rhinitis		
Acute .....	164	
Chronic .....	9	
Unclassified .....	<u>487</u>	660
Retraction, eardrum .....	..	1
Salpingitis .....	..	1
Scabies .....	..	31
Scarlet fever .....	..	1
Sciatica .....	..	5
Scoliosis .....	..	4
Seborrhea .....	..	7
Septicemia .....	..	1
Sinusitis .....	..	296
Soreness, muscle .....	..	3
Sore throat .....	..	13
Stenosis, mitral .....	..	1
Stiff neck .....	..	2
Stomatitis		
Apthous .....	76	
Unclassified .....	<u>21</u>	97
Synovitis .....	..	9
Swollen		
Feet .....	1	
Gland .....	3	
Miscellaneous .....	<u>1</u>	5
Tachycardia .....	..	10
Tenosynovitis .....	..	10
Testicle, undescended .....	..	12
Thyroid, enlarged .....	..	3
Thyroiditis .....	..	1
Tinea		
Circinata .....	4	
Cruris .....	68	
Tonsurans .....	3	
Versicolor .....	4	
Unclassified .....	<u>96</u>	175
Tinnitus aurium .....	..	2
Tonsillitis		
Acute .....	11	
Chronic .....	11	
Unclassified .....	<u>111</u>	133
Toothache .....	..	72
Torticollis .....	..	19
Tracheitis .....	..	5
Trachoma .....	..	1
Tuberculosis .....	..	1
Tumor .....	..	4
Thrombosis .....	..	2



Ulcer .....	..	49
Underweight .....	..	108
Ureitis .....	..	41
Urethritis .....	..	7
Urticaria .....	..	33
Vaccinia .....	..	21
Varicocele .....	..	8
Varicose veins .....	..	4
Verruca (wart) .....	..	304
Vertigo .....	..	17
Vitiligo .....	..	1
Vomiting .....	..	2
Weak ankle .....	..	4
Whitlow .....	..	1
Wound .....	..	25

## INJURIES, WOUNDS, SPRAINS

Abrasion		
Ankle .....	2	
Arm .....	14	
Buttock .....	3	
Chest .....	2	
Elbow .....	10	
Eyelid .....	6	
Face .....	5	
Finger .....	52	
Foot .....	15	
Hand .....	33	
Head .....	10	
Heel .....	6	
Knee .....	79	
Leg .....	24	
Nose .....	2	
Shoulder .....	1	
Skin .....	4	
Thigh .....	5	
Toe .....	9	
Miscellaneous .....	12	
Unclassified .....	<u>50</u>	344
Avulsion, nail .....	..	1
Blister		
Hand .....	5	
Heel .....	54	
Foot .....	27	
Toe .....	23	
Miscellaneous .....	7	
Unclassified .....	<u>18</u>	134





Broken tooth .....	..		1
Burn			
Acid .....	8		
Chemical .....	8		
Electrical .....	2		
Powder .....	1		
Sunburn .....	6		
Miscellaneous .....	<u>16</u>	41	
Arm .....	16		
Back .....	1		
Eye .....	10		
Face .....	8		
Finger .....	27		
Foot .....	5		
Hand .....	43		
Head .....	1		
Leg .....	3		
Mouth .....	2		
Wrist .....	6		
Miscellaneous .....	<u>19</u>		
Unclassified .....	<u>26</u>	<u>169</u>	210
Contusion			
Arm .....	10		
Back .....	16		
Bone .....	1		
Buttocks .....	5		
Chest .....	13		
Ear .....	5		
Eye .....	14		
Face .....	3		
Finger .....	52		
Foot .....	37		
Forehead .....	2		
Groin .....	1		
Head .....	9		
Hand .....	10		
Heel .....	17		
Hip .....	4		
Jaw .....	1		
Joint			
Ankle .....	9		
Elbow .....	13		
Knee .....	36		
Wrist .....	<u>2</u>		
Leg .....	60		
Lip .....	30		
Muscle .....	4		
Neck .....	3		
Nose .....	2		
	15		



## Contusion (cont'd)

Scrotum .....	1	
Shoulder .....	2	
Side .....	1	
Spine .....	3	
Testicle .....	1	
Thigh .....	6	
Toe .....	15	
Miscellaneous .....	18	
Unclassified .....	<u>20</u>	375

## Dislocation

Cartilage .....	2	
Elbow .....	2	
Finger .....	1	
Knee .....	1	
Shoulder .....	<u>1</u>	7

## Foreign body

Arm .....	1	
Ear .....	2	
Eye .....	175	
Finger .....	3 <sup>1</sup>	
Hand .....	6	
Throat .....	4	
Miscellaneous .....	10	
Unclassified .....	<u>24</u>	258

## Fracture

## Bones

Ankle .....	2	
Arm .....	1	
Finger .....	18	
Foot .....	2	
Hand .....	1	
Leg .....	2	
Nasal septum .....	1	
Rib .....	4	
Toe .....	5	
Wrist .....	2	
Miscellaneous .....	5	
Unclassified .....	<u>5</u>	43

## Incisions

Finger .....	1	
Scalp .....	1	
Wound .....	25	
Miscellaneous .....	<u>1</u>	28

## Infections

Abrasion .....	4	
Ankle .....	2	
Arm .....	11	
Axillar .....	2	
Blister .....	14	
Cheek .....	5	



## Infections (cont'd)

Clavus .....	7
Comedo .....	2
Cyst .....	18
Ear .....	9
Elbow .....	3
Eye .....	4
Eyelid .....	3
Face .....	9
Finger .....	100
Foot .....	34
Gum .....	16
Hand .....	14
Head .....	4
Heel .....	10
Knee .....	5
Leg .....	4
Mouth .....	6
Nasal .....	14
Neck .....	2
Sinus .....	3
Skin .....	1
Toe .....	84
Tonsils .....	17
Tooth .....	9
Wound .....	2
Wrist .....	2
Miscellaneous .....	22
Unclassified .....	<u>24</u>

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## Injured

Ankle .....	14
Arm .....	6
Chest .....	3
Elbow .....	6
Eye .....	3
Finger .....	26
Foot .....	18
Hand .....	5
Knee .....	21
Leg .....	4
Nose .....	4
Rib .....	1
Shoulder .....	5
Skull .....	1
Toe .....	4
Vertebrae .....	3
Wrist .....	8
Miscellaneous .....	22
Unclassified .....	<u>31</u>

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## Lacerations

Arm .....	5	
Chin .....	2	
Ear .....	2	
Eye .....	10	
Face .....	2	
Finger .....	77	
Foot .....	12	
Hand .....	29	
Head .....	8	
Knee .....	10	
Leg .....	6	
Lips .....	2	
Nose .....	2	
Scalp .....	8	
Thigh .....	1	
Toe .....	5	
Wrist .....	2	
Wound .....	19	
Miscellaneous .....	18	
Unclassified .....	<u>34</u>	254
Puncture, wound .....	..	13
Rupture .....	..	1
Ruptured ear drum .....	..	3
Sprain		
Ankle .....	238	
Arm .....	3	
Back .....	17	
Chest .....	2	
Elbow .....	8	
Finger .....	47	
Foot .....	50	
Hand .....	7	
Hip .....	2	
Intercostals .....	1	
Knee .....	42	
Leg .....	4	
Neck .....	1	
Sacroiliac .....	21	
Shoulder .....	18	
Tendon .....	2	
Thumb .....	23	
Toe .....	15	
Wrist .....	61	
Miscellaneous .....	8	
Unclassified .....	<u>14</u>	584





## Strain

Abdomen .....	1	
Ankle .....	13	
Arm .....	2	
Back .....	12	
Eye .....	69	
Foot .....	16	
Knee .....	24	
Leg .....	1	
Muscle .....	41	
Neck .....	1	
Sacroiliac .....	12	
Shoulder .....	7	
Thumb .....	4	
Wrist .....	16	
Miscellaneous .....	7	
Unclassified .....	<u>1</u>	<u>227</u>
GRAND TOTAL		3139



## RECAPITULATION

Pharyngitis .....	1856
Mycosis .....	908
Coryza .....	866
Rhinitis .....	660
Ceruminosis .....	416
Bronchitis .....	374
Furunculosis .....	334
Verruca .....	304
Sinusitis .....	296
Dermatitis .....	193
Lagrippe .....	180
Tinea .....	175
Conjunctivitis .....	169
Acne .....	167
Myositis .....	150
Tonsillitis .....	133
Impetigo .....	118
Underweight .....	108
Hordeolum .....	100
Cyst .....	98
Stomatitis .....	97
Otitis .....	96
Appendicitis .....	88
Adenitis .....	87
Fatigue .....	86
Painful .....	86
Dysmenorrhea .....	84
Herpes .....	82
Headache .....	79
Pustule .....	78
Laryngitis .....	78
Toothache (Odontalgia) .....	72
Flat foot .....	69
Gastroenteritis .....	69
Gingivitis .....	63
Hay fever .....	58
Constipation .....	58
Pleurisy .....	57
Angina .....	55
Indigestion .....	54
Gastritis .....	54
Epistaxis .....	52
Clavus .....	51
Hemorrhoids .....	51
Neuritis .....	51
Ingrown toe nail .....	50



Callosity .....	49
Ulcer .....	49
Hernia .....	47
Influenza .....	47
Enteritis .....	41
Albuminuria .....	41
Ureitis .....	41
Bites .....	39
Bursitis .....	37
Deviation, nasal septum .....	37
Paronychia .....	36
Colitis .....	35
Irritation .....	35
Arthritis .....	34
Eczema .....	34
Lumbago .....	33
Overweight .....	33
Urticaria .....	33
Allergy .....	32
Scabies .....	31
Cancrum .....	30
Metatarsalgia .....	30
Asthma .....	29
Insomnia .....	28
Blepharitis .....	27
Diarrhea .....	27
Wound .....	25
Pityriasis .....	24
Edema .....	24
Cystitis .....	23
Abscess .....	22
Frostbite .....	21
Vaccinia .....	21
Caries .....	20
Otalgia .....	20
Fissure .....	19
Pediculosis .....	19
Torticollis .....	19
Cellulitis .....	18
Ganglion .....	17
Myalgia .....	17
Tortigo .....	17
Mumps .....	16
Neuralgia .....	16
Nervousness .....	15
Migraine .....	13
Sore throat .....	13



Heart trouble .....	12
Poisoning .....	12
Testicle, undescended .....	12
Dandruff .....	11
Rheumatism .....	11
Tachycardia .....	10
Tenosynovitis .....	10

#### NINE CASES:

Amenorrhea, nausea, rales, synovitis.

#### EIGHT CASES:

Cough, deafness, hydrocele, neurasthenia, phimosis, pruritis, varicocele.

#### SEVEN CASES:

Atrophy, hemorrhage, hypothyroidism, seborrhea, urethritis.

#### SIX CASES:

Balanitis, bromidrosis, bunion, epididymitis, hyperacidity, inflammation, menorrhagia, neurosis.

#### FIVE CASES:

Anemia, catarrh, chiggers, erythema, fainting, hematoma, hiccough, myopia, nevus, periostitis, sciatica, swollen, tracheitis.

#### FOUR CASES:

Autointoxication, comedo, folliculitis, nocturnal emissions, scoliosis, tumor, varicose veins, weak ankle, dysentery.

#### THREE CASES:

Anorexia, heat stroke, hypertension, jaundice, pyelitis, quinsy, soreness, muscle, thyroid enlarged.





## TWO CASES:

Adhesions, ankylosis, charley horse, chickenpox, chilblain, colorblindness, diabetes, ecchymosis, epilepsy, exostosis, fistula, flatulence, glossitis, glycosuria, granulated eye, hemoptysis, hyperopia, hypertrophy, hysteria, iritis, lordosis, malaise, malaria, mastitis, mucocele, obesity, orchitis, palpitation, papilloma, paralysis, psychosis, stiff-neck, tinnitus, aurium, thrombosis, vomiting.

## ONE CASE:

Burning eyes, calculus, carbuncle, chalazion, chapped, cramp, condyloma, dry skin, epidermophytosis, erysipelas, fibroma, goitre, halitosis, heat rash, hematuria, ichthyosis, impacted molar, intestinal toxemia, miliaria, molluscum, nasal obstruction, nephritis, obstruction, eustachian, osteoma, osteomyelitis, polyuria, poor posture, psoriasis, pyelosephritis, pyorrhea, rheumatic fever, retraction, salpingitis, scarlet fever, septicemia, stenosis, mitral, thyroiditis, trachoma, tuberculosis, vitiligo, Whitlow.



## GENERAL SCIENCE

No. of teachers who taught General Science and nothing else - 624

Gen. Sc., Agriculture .....	18
Gen. Sc., Agriculture, Biology .....	3
Gen. Sc., Agriculture, Biology, Physics .....	1
Gen. Sc., Agriculture, Biology, Physiology .....	1
Gen. Sc., Agriculture, Chemistry, Physics .....	1
Gen. Sc., Agriculture, Physics .....	1
Gen. Sc., Algebra, Bookkeeping .....	1
Gen. Sc., Algebra, Civics, Geometry, Physics .....	1
Gen. Sc., Algebra, Geography .....	1
Gen. Sc., Algebra, Geometry, Mathematics .....	1
Gen. Sc., Art .....	1
Gen. Sc., Astronomy, Chemistry .....	1
Gen. Sc., Band, Chemistry, Physics .....	3
Gen. Sc., Biology .....	140
Gen. Sc., Biology, Botany, Geography, Zoology .....	1
Gen. Sc., Biology, Chemistry .....	10
Gen. Sc., Biology, Chemistry, P. E. ....	1
Gen. Sc., Biology, Chemistry, Physics .....	8
Gen. Sc., Biology, Civics .....	1
Gen. Sc., Biology, English .....	4
Gen. Sc., Biology, English, Mathematics .....	1
Gen. Sc., Biology, History .....	1
Gen. Sc., Biology, History, P.E. ....	2
Gen. Sc., Biology, Home Ec., Mathmatics .....	1
Gen. Sc., Biology, Hygiene, Physiology .....	1
Gen. Sc., Biology, Law .....	1
Gen. Sc., Biology, Mathematics .....	5
Gen. Sc., Biology, Mathematics, P.E. ....	1
Gen. Sc., Biology, Mathematics, Physics .....	1
Gen. Sc., Biology, Music .....	4
Gen. Sc., Biology, P.E. ....	2
Gen. Sc., Biology, Physics .....	11
Gen. Sc., Biology, Physics, Zoology .....	1
Gen. Sc., Biology, Zoology .....	1
Gen. Sc., Botany .....	3
Gen. Sc., Botany, Chemistry, Zoology .....	1
Gen. Sc., Botany, Zoology .....	3
Gen. Sc., Business Law, Hygiene, Physics .....	1
Gen. Sc., Chemistry .....	51
Gen. Sc., Chemistry, Dramatics, English, Speech .....	1
Gen. Sc., Chemistry, Home Ec. ....	2
Gen. Sc., Chemistry, Mathematics .....	3
Gen. Sc., Chemistry, Mathematics, Physics .....	6
Gen. Sc., Chemistry, P.E. ....	1
Gen. Sc., Chemistry, P.E., Physics .....	3
Gen. Sc., Chemistry, Physics .....	72



Gen. Sc., Chemistry, Physics, Physiology .....	1
Gen. Sc., Chemistry, Physics, Principal .....	1
Gen. Sc., Chemistry, Zoology .....	1
Gen. Sc., Civics .....	2
Gen. Sc., Civics, Commercial Law, History, Mathematics ....	3
Gen. Sc., Civics, Economic Geography, History .....	1
Gen. Sc., Civics, English .....	1
Gen. Sc., Civics, History, Mathematics .....	1
Gen. Sc., Civics, P.E., Physics .....	1
Gen. Sc., Coaching .....	1
Gen. Sc., Commerce .....	1
Gen. Sc., Commercial Geography .....	2
Gen. Sc., Commercial Law, Zoology .....	1
Gen. Sc., Driving .....	2
Gen. Sc., Economics .....	1
Gen. Sc., Economics, Commerce, Geography .....	1
Gen. Sc., Economics, History .....	2
Gen. Sc., Economics, History, Mathematics .....	1
Gen. Sc., Electric Shop .....	1
Gen. Sc., English .....	21
Gen. Sc., English, Foreign Language .....	1
Gen. Sc., English, French .....	1
Gen. Sc., English, Geography, Spanish .....	1
Gen. Sc., English, German .....	1
Gen. Sc., English, History, Latin, Mathematics .....	1
Gen. Sc., English, Home Ec. ....	2
Gen. Sc., English, Hygiene .....	1
Gen. Sc., English, Latin, Mathematics .....	1
Gen. Sc., English, Mathematics .....	2
Gen. Sc., English, Mathematics, Music .....	1
Gen. Sc., English, Mathematics, Physics .....	1
Gen. Sc., English, P.E. ....	1
Gen. Sc., English, Physics .....	1
Gen. Sc., General Business .....	2
Gen. Sc., Geography .....	1
Gen. Sc., Geography, Mathematics .....	1
Gen. Sc., German .....	2
Gen. Sc., German, Mathematics, P.E. ....	1
Gen. Sc., History .....	12
Gen. Sc., History, Manual Training .....	2
Gen. Sc., History, Mathematics .....	2
Gen. Sc., History, P.E. ....	3
Gen. Sc., Home Ec. ....	51
Gen. Sc., Home Ec., P.E. ....	2
Gen. Sc., Hygiene .....	2
Gen. Sc., Hygiene, P.E. ....	2
Gen. Sc., Industrial Arts .....	1
Gen. Sc., Latin .....	1
Gen. Sc., Manual Training .....	3
Gen. Sc., Mathematics .....	86
Gen. Sc., Mathematics, Music .....	1





Gen. Sc., Mathematics, P.E. ....	5
Gen. Sc., Mathematics, Physics .....	21
Gen. Sc., Mathematics, <del>Other</del> Sciences .....	1
Gen. Sc., Music .....	4
Gen. Sc., P.E. ....	25
Gen. Sc., Physical Geography .....	1
Gen. Sc., Physics .....	72
Gen. Sc., Physiology .....	10
Gen. Sc., Principal .....	1
Gen. Sc., Zoology .....	15





## BIOLOGY

No. of teachers who taught Biology and nothing else	-	613
Biology, Agriculture .....		37
Biology, Agriculture, Business Training, History .....		1
Biology, Agriculture, Chemistry .....		2
Biology, Agriculture, General Science .....		2
Biology, Agriculture, General Science, Physiology .....		1
Biology, Art .....		1
Biology, Botany .....		7
Biology, Botany, English .....		2
Biology, Botany, German .....		1
Biology, Botany, Mathematics .....		1
Biology, Botany, Physics, Zoology .....		1
Biology, Botany, Zoology .....		5
Biology, <del>Business</del> Law .....		1
Biology, Chemistry .....		18
Biology, Chemistry, Civics, Physics .....		1
Biology, Chemistry, General Science .....		10
Biology, Chemistry, General Science, Home Ec. ....		2
Biology, Chemistry, General Science, Physics .....		5
Biology, Chemistry, Hygiene, Zoology .....		1
Biology, Chemistry, Latin, Physics .....		1
Biology, Chemistry, General Science, P.E. ....		3
Biology, Chemistry, P.E., Typing .....		1
Biology, Chemistry, Physics .....		18
Biology, Chemistry, Physiology .....		1
Biology, Chemistry, General Science, Physiology .....		6
Biology, Chemistry, P.E., Physics .....		1
Biology, Chemistry, Sex Problems .....		1
Biology, Citizenship .....		1
Biology, Civics, Commercial Law, History, Mathematics ....		1
Biology, Civics, English, Physics .....		1
Biology, Civics, General Science, History .....		3
Biology, Civics, Geography .....		1
Biology, Civics, History .....		1
Biology, <del>Teaching</del> , History .....		2
Biology, Commercial Geography .....		2
Biology, Commercial Geography, General Science .....		2
Biology, Commercial Law .....		1
Biology, Economics, Hygiene, Sociology .....		1
Biology, English .....		18
Biology, English, General Science .....		3
Biology, English, General Science, Latin .....		1
Biology, English, General Science, Speech .....		1
Biology, English, History .....		1
Biology, English, Home Ec. ....		1
Biology, English, Latin .....		3
Biology, English, Physiography, Physiology .....		1



Biology, General Science .....	41
Biology, General Science, Commercial Law .....	1
Biology, General Science, History .....	3
Biology, General Science, History, Hygiene .....	1
Biology, General Science, History, P.E. ....	1
Biology, General Science, History, Social Science .....	1
Biology, General Science, Home Ec. ....	2
Biology, General Science, Hygiene, Physiology .....	1
Biology, General Science, Mathematics .....	3
Biology, General Science, Mathematics, Physics .....	1
Biology, General Science, Music .....	4
Biology, General Science, Physiology .....	2
Biology, General Science, P.E. ....	5
Biology, General Science, P.E., Physics .....	1
Biology, General Science, Physics .....	5
Biology, Geography .....	1
Biology, Geography, History .....	1
Biology, Geography, Mathematics .....	1
Biology, Geography, Physics .....	1
Biology, Geography, Physics, Physiology .....	1
Biology, Geography, Physiology .....	1
Biology, Geology .....	1
Biology, German .....	1
Biology, History .....	5
Biology, History, Home Ec. ....	1
Biology, History, Mathematics .....	1
Biology, History, P.E. ....	2
Biology, Home Ec. ....	12
Biology, Home Ec., P.E., Physiography, Physiology .....	1
Biology, Hygiene .....	2
Biology, Languages .....	1
Biology, Latin .....	3
Biology, Latin, Speech .....	2
Biology, Manual Training .....	2
Biology, Manual Training, P.E. ....	2
Biology, Manual Training, Physiography .....	1
Biology, Mathematics .....	20
Biology, Mathematics, Music .....	1
Biology, Mathematics, P.E. ....	2
Biology, Mathematics, Physics .....	3
Biology, Mathematics, Physiology .....	1
Biology, Mathematics, Political Science .....	1
Biology, Mathematics, Zoology .....	1
Biology, Mechanical Drawing .....	1
Biology, Music .....	3
Biology, Music, Other Sciences .....	1
Biology, P.E. ....	35
Biology, P.E., Physics, Physiography, Physiology .....	1
Biology, P.E., Physiology .....	2



Biology, Photography .....	1
Biology, Physics .....	20
Biology, Physics, Physiology .....	1
Biology, Physiography .....	1
Biology, Physiography, Physiology .....	1
Biology, Physiology .....	6
Biology, Religion .....	1
Biology, Social Science .....	1
Biology, Spanish .....	1
Biology, Superintendent .....	1
Biology, Zoology .....	2





No. of teachers who taught Hygiene and nothing else	60
Hygiene, Agriculture .....	1
Hygiene, Agriculture, Physical Geography .....	1
Hygiene, Biology .....	6
Hygiene, Biology, Chemistry .....	1
Hygiene, Biology, First Aid .....	1
Hygiene, Biology, General Science .....	1
Hygiene, Biology, General Science, History .....	1
Hygiene, Biology, General Science, P.E. ....	1
Hygiene, Biology, Geography .....	1
Hygiene, Biology, Home Ec. ....	1
Hygiene, Biology, P. E. ....	1
Hygiene, Biology, Physics .....	1
Hygiene, Chemistry .....	5
Hygiene, Chemistry, General Science .....	2
Hygiene, Chemistry, Physics .....	4
Hygiene, Civics, Geography, History .....	1
Hygiene, Driving .....	1
Hygiene, English .....	3
Hygiene, English, German, P.E. ....	1
Hygiene, English, Latin, Mathematics, Physiography .....	1
Hygiene, Etiquette, Speech .....	1
Hygiene, First Aid .....	1
Hygiene, General Business, P.E. ....	1
Hygiene, General Science .....	15
Hygiene, General Science, Home Ec. ....	1
Hygiene, General Science, Manual Training, Mech. Drawing .	1
Hygiene, General Science, P.E. ....	2
Hygiene, Geography, History .....	1
Hygiene, Geography, P.E. ....	1
Hygiene, German, Mathematics .....	1
Hygiene, History .....	1
Hygiene, Home Ec. ....	3
Hygiene, Home Ec., P.E. ....	2
Hygiene, Industrial Arts, Mathematics .....	1
Hygiene, Manual Training, P.E. ....	4
Hygiene, Mathematics .....	10
Hygiene, Mathematics, P.E. ....	12
Hygiene, Mathematics, Other Sciences .....	2
Hygiene, Mathematics, Social Science .....	1
Hygiene, Mathematics, Physics .....	1
Hygiene, Music .....	1
Hygiene, P.E. ....	243
Hygiene, P.E., Physiology .....	2
Hygiene, P.E., Social Science .....	3
Hygiene, P.E., Zoology .....	1
Hygiene, Physics .....	3
Hygiene, Physics, Mathematics .....	1





Hygiene, Physics, Shorthand, Typing .....	3
Hygiene, Physiology .....	1
Hygiene, R.O.T.C. ....	2
Hygiene, School Nursing .....	1
Hygiene, Superintendent .....	2



## PHYSIOLOGY

No. of teachers who taught Physiology and nothing else	-	101
Physiology, Agriculture.....		3
Physiology, Agriculture, Biology, General Science.....		1
Physiology, Biology.....		20
Physiology, Biology, Botany.....		2
Physiology, Biology, Business Training.....		1
Physiology, Biology, Chemistry, General Science.....		2
Physiology, Biology, Chemistry, Latin, Physics.....		1
Physiology, Biology, English, Math.....		1
Physiology, Biology, English, Physical Geography.....		1
Physiology, Biology, General Science.....		1
Physiology, Biology, Geography, Physics.....		1
Physiology, Biology, Home Ec., P.E., Physiography.....		1
Physiology, Biology, Latin.....		1
Physiology, Biology, Math.....		1
Physiology, Biology, P.E. ....		3
Physiology, Biology, P.E., Physiography.....		3
Physiology, Biology, Physical Geography.....		1
Physiology, Biology, Physics.....		2
Physiology, Biology, Physics, Physiography.....		1
Physiology, Botany.....		1
Physiology, Chemistry.....		5
Physiology, Chemistry, Physics.....		5
Physiology, Chemistry, Zoology.....		1
Physiology, Civics, P.E. ....		1
Physiology, Clothing.....		1
Physiology, Coaching, General Business.....		1
Physiology, Coaching, Geography.....		1
Physiology, Coaching, Hygiene.....		1
Physiology, Commerce.....		2
Physiology, Commercial Geography.....		3
Physiology, Commercial Geography, P.E. ....		2
Physiology, Economics.....		1
Physiology, Economics, History.....		1
Physiology, English.....		8
Physiology, English, General Science, Latin.....		1
Physiology, English, Geography.....		3
Physiology, English, History, Latin, Math.....		1
Physiology, English, Home Ec. ....		1
Physiology, English, Industrial Geography.....		1
Physiology, English, Physiography .....		1
Physiology, First Aid.....		2
Physiology, Foreign Language.....		2
Physiology, French.....		1
Physiology, General Science.....		18
Physiology, General Science, Math.....		1
Physiology, General Science, P.E. ....		2
Physiology, General Science, P.E., Physics.....		1
Physiology, General Science, Physics.....		1



Physiology, Geography .....	2
Physiology, Geography, History .....	1
Physiology, Geography, Mathematics .....	1
Physiology, Geography, Physics .....	1
Physiology, Geology, Latin .....	1
Physiology, Geometry .....	1
Physiology, Geometry, P.E., Physiography .....	1
Physiology, History .....	4
Physiology, History, Language .....	1
Physiology, History, Latin .....	1
Physiology, Home Ec. ....	10
Physiology, Home Ec., P.E. ....	2
Physiology, Home Ec., Physiography .....	4
Physiology, Home Ec., Social Problems .....	1
Physiology, Home Ec., Sociology .....	1
Physiology, Hygiene .....	3
Physiology, Hygiene, Physiography .....	1
Physiology, Industrial Geography .....	2
Physiology, Language, Religion .....	1
Physiology, Latin .....	1
Physiology, Manual Training .....	2
Physiology, Mathematics .....	10
Physiology, Mathematics, P.E. ....	3
Physiology, Mathematics, Physics .....	1
Physiology, Mathematics, Industrial Arts .....	1
Physiology, Mathematics, Social Science .....	1
Physiology, Music .....	1
Physiology, P.E. ....	40
Physiology, P.E., Physiography .....	1
Physiology, P.E., Physiography, Vocations .....	1
Physiology, P.E., Vocational Guidance .....	1
Physiology, Physics .....	6
Physiology, Physiography .....	30
Physiology, Religion .....	2
Physiology, Sociology .....	4
Physiology, Spanish .....	1
Physiology, Zoology .....	1















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